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SACO Shipping GmbH · Bürgermeister-Smidt-Str. 128 · 28195 Bremen

NVOCC Services worldwide

Bremen, 02. June 2026

Interteam S.A. de C.V.
Servicios Int.
Calle Colima #114 Desp. 201, Colonia Roma,
06700 C.P.MEXICO D.F
MX MEXICO

RECHNUNG/INVOICE EXPORT

lbr / lbr / lbr

CUSTOMER-Ref.: 260528410148

Leistungsdatum : 30.05.2026

INVOICE-No	INVOICE-Date	CUSTOMER-No	SACO-Ref.	B/L-Ref.	Your VAT-ID	R.O.E
5680054	02.06.2026	020896	6/05/BRE/528200	6/05/BRE/5282		0.8604

Vessel:

Destination:

Online-Ref:

Delivery:

Pieces

Gross KOS

Volumen CBM

SACO REF.: VESSEL: PORT: ETA: CONTAINER:
6/05/BRE/5282 GSL MARIA VERACRUZ 14.06.2026 MRSU3859357

Pos.	Description	Rate	Amount	Tax
1	AS PER ATTACHED PL SHEET	2178.30 USD	2178.30	

NO VAT ON

2178.30

VAT ON

0

TOTAL VAT

0

VAT

19%

TOTAL AMOUNT USD

2178.30

SACO Shipping GmbH
Wollkämmerstraße 1
21107 Hamburg
Telefon: +49 40 311706-0
Telefax: +49 40 311706-100

Buchhaltung
Telefon: +49 421 52016 315
Telefax: +49 421 52016 317
VAT-ID: DE-118597456
account@saco.de

Volksbank Lüneburger Heide eG
US Dollar Account
BLZ 240 603 00, Kto-Nr. 4 600 360 605
SWIFT-BIC: GENO DE F1 NBU
IBAN DE 19 2406 0300 4600 3606 05

Volksbank Lüneburger Heide eG
Euro Account
BLZ 240 603 00, Kto-Nr. 4 600 360 600
SWIFT-BIC: GENO DE F1 NBU
IBAN DE 57 2406 0300 4600 3606 00

Commerzbank AG
Euro Account
BLZ 200 800 00, Kto-Nr. 6 510 954 00
SWIFT-BIC: DRES DE FF 200
IBAN DE 96 2008 0000 0651 0954 00

Internet: <https://sacoshipping.com> · E-Mail: info@saco.de · Geschäftsführer: Harald Pahl, Andrea Briks, Kevin Pahl, Jannik Pahl, Sönke Briks · Gerichtsstand: Hamburg · Sitz Hamburg · HRB 40128 · Finanzamt: Hamburg-Harburg

SACO Shipping GmbH handelt bei Seetransporten einschließlich Vorlauf- und Nachlauftransporten ausschließlich als Agent von SACO Shipping Line Limited, Limassol/Zypern. SACO Shipping Line Limited Limassol arbeitet ausschließlich nach ihren jeweils gültigen Konnossements-Bedingungen, auch wenn kein Konnossement ausgestellt wurde. Diese Bedingungen können bei den jeweiligen Büros und/oder unter sacoshipping.com eingesehen werden.

amended on: 20.02.2026 by ECH

Mexico PL-Sheet 2026

valid from March 1st 2026

SACO Ref.:
6/05/BRE/5282

Vessel:
GSL MARIA

Port:
VERACRUZ

ETA:
14.06.2026

Container:
MRSU3859357



B/L	COLLECT	incl.Special charges	Doc fee	Unstuffing	Admin Fee	Transm.Fee	Port Transf	On Carriage	0,00 USD	Quote No.:
VER284202										
VER284203										
VER284313	240,25									
VER284348	485,47									
VER284369										
VER284373										
VER284374										
VER284385	43,00									
VER284386	56,00									
VER284401										
VER284402										
VER284415										
VER284416										
VER284430										
VER284431										
VER284446										
	824,72		0,00	0,00	0,00	0,00	0,00		0,00	

COLLECT FREIGHT TOTAL

824,72 USD

824,72 USD

debit to Interteam

RELEASE FEE

0,00 USD

UNSTUFFING

0,00 USD

ADMIN FEE

0,00 USD

TRANSMISSION FEE

0,00 USD

CREDIT FOR ON CARRIAGE

0,00 USD

PORT TRANSFER

0,00 USD

0,00 USD

credit to Interteam

kickback as agreed USD 24,00 w/m from B/L

date 01.10.2023 FRT:

56,399

1.353,58 USD

1.353,58 USD

debit to Interteam

Hartrodt Kickback USD 4,50 w/m

FRT:

0,00 USD

0,00 USD

debit to Interteam

Quick Cargo Kickback USD 3,- w/m

FRT:

0,00 USD

BDP / ED Forwarding Kickback USD 3,- w/m

FRT:

0,00 USD

Linkin / Europartner/XPD Kickback USD 4 w/m

FRT:

0,00 USD

DHL compensation VER canceled 2026

FRT:

0,00 USD

DHL compensation ALM canceled 2026

FRT:

0,00 USD

K&N compensation canceled 2026

FRT:

0,00 USD

Ceva compensation canceled 2026

FRT:

0,00 USD

TOTAL AMOUNT

2.178,30 USD

CREDIT OR DEBIT TO INTERTAEM

Agreed special PLC :

SHIPPER	Consignee	Doc fee	Unstuffing	Admin	Tranmiss.	Port Transfer
Würth	Knipping/Globaltranz	USD 50,-	USD 28,-w/m			
Hansa Gateway	all	USD 70,-	USD 33,-w/m			

Manifest

Page: 1

Container-No.: MRSU3859357 40' HIGH CUBE CONTAINER Seal-No.: B052457
Vessel: SAC0565 / GSL MARIA
ETS:
Master-B/L.: 721332619

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER284202	FEDERAL MOGUL POW ERTRAIN FORJAS Y MAQUINAS S DE RL DE CV JESUS RIVERA FRAN CO 402 CD. INDUSTRIAL AGUASC ALIENTES AGS 2029 0, MEXICO	3	PALLETS	300KG BINAL (NATRIUM IN TIN FOIL) UN 1428, NATRIUM, 4.3, IL (B/E) ORDER:26.5.9-AS HS-CODE:28051100	390.000	1.584
VER284203	EVONIK INDUSTRIES DE MEXICO P.O. 46511462 TEGOSOFT CR MB EVONIK ORDER NO. 3012495883 VERACRUZ / MEXICO	1	PALLET	TEGOSOFT CR MB HS-CODE: 291819 6 DRUM	164.100	0.682
VER284313	SEG AUTOMOTVIE MEXICO 454391 454392 454463	6	PALLETS	RING GEAR, MOTOR BEARING INTERMEDIATE BEARING HS: 84879090 INVOICES: 518767 518769 518770	674.148	5.587
VER284348	SEG AUTOMOTVIE MEXICO 00454555 00454556 00454557 00454558	12	PACKAGES	INTERMEDIATE BEARING, MOTOR BEARING HS: 84879090 INVOICES: 518793 518794 518795 518796	1452.816	11.290

Manifest

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Container-No.: MRSU3859357 40' HIGH CUBE CONTAINER Seal-No.: B052457
Vessel: SAC0565 / GSL MARIA
ETS:
Master-B/L.: 721332619

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER284369	TUNKERS DE MEXICO PKL 358366	1	PALLET	CLAMPING SYSTEMS HS-CODE: 392690,730451, 731815, 761090 **HSCODE: 392690**	297.000	0.989

Manifest

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Container-No.: MRSU3859357 40' HIGH CUBE CONTAINER Seal-No.: B052457
 Vessel: SAC0565 / GSL MARIA
 ETS:
 Master-B/L.: 721332619

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER284373	BINZEL S.A. DE C.BV. MUNICIPIO DE TEPEZAL #109 VALLE DE AGUASCALIENTES 20358 SAN FCA DE LOS ROMO MEXICO REF# 32601857 + 32602089	8	PACKAGES	WELDING TORCHES AND SPAREPARTS REF# 32601857 + 32602089 HS-CODES: 820411, 851590, 381090, 390422, 391739, 391740, 392321, 392690, 401693, 481910, 681599, 731815, 732020, 732690, 820320, 820780, 841410, 842139, 845690, 846630, 847989, 848120, 848390, 848790, 851590, 854449 IMO INFO: UN1805, CL. 8 PHOSPHORIC ACID, SOLUTION LIMITED QUANTITY NET WEIGHT: 1,00 KG BRUTTO WEIGHT: 11,00 KG UN1950, CL.2.2 AEROSOLS LIMITED QUANTITY NET WEIGHT: 113,00 KG NET WEIGHT: 117,00 KG EMERGENCY CONTACT NO.: +49 176 10859177 UN 1805/Class 8/PG III Imo Gross Weight:	2310.000	10.076

Manifest

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Container-No.: MRSU3859357 40' HIGH CUBE CONTAINER Seal-No.: B052457
Vessel: SAC0565 / GSL MARIA
ETS:
Master-B/L.: 721332619

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
				11,000 KGS Imo Net Weight : 1,000 KGS UN 1950/Class 2.2/PG Imo Gross Weight: 117,000 KGS Imo Net Weight : 113,000 KGS		

Manifest

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Container-No.: MRSU3859357 40' HIGH CUBE CONTAINER Seal-No.: B052457
 Vessel: SAC0565 / GSL MARIA
 ETS:
 Master-B/L.: 721332619

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER284374	PO 4506985469 PO 4506987664	8	PALLETS	S.T.C. 300 PAPERBAGS HEUCODUR YELLOW 152 (P) (HARMLESS) HEUCOPHOS ZCP-PLUS HS CODE:28352990,32064 IMO CLASS: 9 UN NO.: 3077 PACKAGING GROUP: III NET WEIGHT: 6000 KG MARINE POLLUTANT * Y SUDARSHAN MEXICO MFG, S.A. DE C.V PLASTICOS NO. 28, COL SANTA CLARA COATILA ECATEPEC DE MORELOS 55540, EDO. MEXICO, MEXICO RFC CPA150831D6A PHONE: (5255) 4352 4372 ATTENTION TO: ANA ISABEL PERALTA / MAIL TO: ANAIABEL.PERALTA@SU LOGISTICS_HEUBACH IMPORT_DESK_LATAM	7590.000	13.519
VER284385	SEG AUTOMOTIVE MEXICO 5939987	1	PALLET	BALL BEARING HS: 84821090 INVOICE: 94685964	130.000	0.334
VER284386	UBERBLOCK SA DE CV MX RO: 400097785	1	CARTON	HELICAL GEARED MOTOR HS: 84779080	98.000	0.179

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Container-No.: MRSU3859357 40' HIGH CUBE CONTAINER Seal-No.: B052457
 Vessel: SAC0565 / GSL MARIA
 ETS:
 Master-B/L.: 721332619

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER284401	WOREGG 53169021 ----- SHIPPED ON BOARD FREIGHT COLLECT ----- EXPRESS BILL OF LADING, NO ORIGINALS ISSUED -----	1	PALLET	S.L.A.C. ALUMINIUM-STRIPS - H.S.CODE 7606.1292	1078.000	1.014
VER284402	ZINKPOWER HIDALGO ATITALAQUIA RSC NO. PMO070327891	3	CASES	CADENA, GRILLETE HS CODE: 73158200, 73159000	3468.000	2.359
VER284415	PROFORMA INVOICE 90402681 DELIVERY NOTE 80762889 PROFORMA INVOICE 90402682 DELIVERY NOTE 80762890	2	PALLET	1 PALLET BOLTS GROSS 38 KGS, NET 25 KGS TREATED AND CERTIFIED 1 0,480 25,000 1 PALLET BOLTS GROSS 25 KGS, NET 12 KGS TREATED AND CERTIFIED HS-CODE: 73181595	63.000	0.440
VER284416	INV. 106338 INV. 106259	2	PACKAGES	AUTOMOTIVE PARTS HS CODE:87089910	290.000	1.248

Manifest

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Container-No.: MRSU3859357 40' HIGH CUBE CONTAINER Seal-No.: B052457
 Vessel: SAC0565 / GSL MARIA
 ETS:
 Master-B/L.: 721332619

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER284430	WELBILT FSG MEXICO S DE RL DE CV CALLE MONTANA 176 COL. INDUSTRIAL LA PERLA C.P. 53348 NAUCALPAN DE JUAREZ ESTADO DE MEXICO MEXICO TAX ID. MFM060502RP1	1	PACKAGE	CONVOTHERM COMBI STEAMER NCM-CODE-NO: 841981,841990 WOODEN PACKAGING IS TREATED AND/OR FUMIGATED IN ACCORDANCE WITH THE ISPM 15 REGULATIONS AS PER THE DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICES ("APHIS")	197.000	1.756
VER284431	EISSMANN MEXICO DN 00117446	1	PALLET	AUTOMOTIVE SPARE PARTS HS -CODE: 392630 **HSCODE: 392630**	183.500	1.018
VER284446	FUCO 10464 / 1-4 FUCO 10465 / 1-9 FUCO 10466 / 1-15 FUCO 10467 / 1-4 FUCO 10471 / 1-8 FUCO 10472 / 1-15 FUCO 10473 / 1-8 FUCO 10474 / 1-11 FUCO 10479 / 1-4 FUCO 10480 / 1-22 FUCO 10481 / 1-19 FUCO 10482 / 1-5 ALEXANDER VON HUMBOLDT MEXICO CITY / MEXICO	3	PALLETS	MATERIAL DIDACTICO Y LIBROS (PARTIDA 3926, 4901, 4903, 4905, 4911 Y 9503) HS-CODE: 39261000, 49019100, 49019900, 49030000, 49052000, 49119900, 95030095 INCL. 14 DAYS STORAGE FREE TIME AT DESTINATION	704.000	3.215

Total **Quantity** **Grossweight** **Measurement**

Manifest

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Container-No.: MRSU3859357 40' HIGH CUBE CONTAINER Seal-No.: B052457
Vessel: SAC0565 / GSL MARIA
ETS:
Master-B/L.: 721332619

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
		54		19.089.564		55.290

**MAERSK****NON-NEGOTIABLE WAYBILL**

SCAC MAEU

B/L No. 721332619

Shipper (As principal, where "care of", "c/o", or other variants used.)
SACO SHIPPING GMBH
AS AGENT OF SACO SHIPPING LINE LTD
BGM.-SMIDT-STR.128
D-28195 BREMEN
GERMANY / DE118597456

Booking No.
721332619

Export references
605BRE5282 LBR

Svc Contract
299542652

Consignee (Negotiable only if consigned "to order", "to order of" a named Person or "to order of bearer".
As principal, where "care of", "c/o", or other variants used.)

INTERTEAM, S.A. DE C.V. COLIMA 114,
INT 201 COLONIA ROMA, C.P. 06700
MEXICO CITY. TEL: +525555149897
TAX ID: INT961206ES7
CTC: MARCELA GODINEZ

This contract is subject to the terms, conditions and exceptions, including the law & jurisdiction clause and limitation of liability & declared value clauses, of the current Maersk Bill of Lading (available from the Carrier, its agents and at terms.maersk.com/carriage), which are applicable with logical amendments (mutatis mutandis). To the extent necessary to enable the Consignee to sue and to be sued under this contract, the Shipper on entering into this contract does so on his own behalf and as agent for and on behalf of the Consignee and warrants that he has the authority to do so. The shipper shall be entitled to change the Consignee at any time before delivery of the goods provided he gives the Carrier reasonable notice in writing. Delivery will be made to the Consignee or his authorised agent on production of reasonable proof of identity (and, in the case of an agent, reasonable proof of authority) without production of this waybill. The Carrier shall be under no liability whatsoever for misdelivery unless caused by the Carrier's negligence.

Onward inland routing (Not part of Carriage as defined in clause 1. For account and risk of Merchant)

Notify Party (see clause 22)

INTERTEAM, S.A. DE C.V. COLIMA 114,
INT 201 COLONIA ROMA, C.P. 06700
MEXICO CITY. TEL: +525555149897
TAX ID: INT961206ES7
CTC: MARCELA GODINEZ

Vessel
GSL MARIA

Voyage No.
621W

Place of Receipt. Applicable only when document used as Multimodal Waybill

Port of Loading
Bremerhaven

Port of Discharge
Veracruz *

Place of Delivery. Applicable only when document used as Multimodal Transport B/L. (see clause 1)

PARTICULARS FURNISHED BY SHIPPER

Kind of Packages; Description of goods; Marks and Numbers; Container No./Seal No.

1 Container Said to Contain 54 PACKAGE

MRSU 385935-7 40/DRY 9'6
3 PKG GROSS WEIGHT: 390.000 KGS MEASUREMENT: 1.584 CBM
300KG BINAL (NATRIUM IN
TIN FOIL)
UN 1428, NATRIUM, 4.3, IL
(B/E)
ORDER:26.5.9-AS
HS-CODE:28051100
1 PALLET GROSS WEIGHT: 164.100 KGS MEASUREMENT: 0.682 CBM
TEGOSOFT CR MB
HS-CODE: 291819
6 DRUM
6 PALLETS GROSS WEIGHT: 674.148 KGS MEASUREMENT: 5.587 CBM
RING GEAR,
MOTOR BEARING
INTERMEDIATE BEARING

Weight
19089.564 KGS

Measurement
55.290 CBM

Above particulars as declared by Shipper, but without responsibility of or representation by Carrier.

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

Carrier's Receipt. Total number of containers or
packages received by Carrier.

1 container

Place of Issue of Waybill
Hamburg

Shipped on Board Date (Local Time)
2026-05-30

Date Issue of Waybill
2026-05-30

Declared Value Charges (see clause 7.3 of the Maersk Bill of
Lading) for Declared Value of US\$

Shipped, as far as ascertained by reasonable means of checking, in apparent good order and condition unless otherwise stated herein the total number or quantity of Containers or other packages or units indicated in the box opposite entitled "Carrier's Receipt"

Signed for the Carrier Maersk A/S

Maersk Deutschland A/S & Co.KG
As Agent(s)

This transport document has one or more numbered pages

HS: 84879090
INVOICES:
518767
518769
518770
12 PACKAGES GROSS WEIGHT: 1452.816 KGS MEASUREMENT: 11.290 CBM
INTERMEDIATE BEARING,
MOTOR BEARING
HS: 84879090
INVOICES:
518793
518794
518795
518796
1 PKG GROSS WEIGHT: 297.000 KGS MEASUREMENT: 0.989 CBM
CLAMPING SYSTEMS HS-CODE:
392690,730451, 731815,
761090
HSCODE: 392690
8 PACKAGES GROSS WEIGHT: 2310.000 KGS MEASUREMENT: 10.076 CBM
WELDING TORCHES AND
SPAREPARTS
REF# 32601857 + 32602089
HS-CODES: 820411, 851590,
381090, 390422, 391739,
391740, 392321, 392690,
401693, 481910, 681599,
731815, 732020, 732690,
820320, 820780, 841410,
842139, 845690, 846630,
847989, 848120, 848390,
848790, 851590, 854449
IMO INFO:
UN1805, CL. 8
PHOSPHORIC ACID, SOLUTION
LIMITED QUANTITY

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

NET WEIGHT: 1,00 KG
BRUTTO WEIGHT: 11,00 KG
UN1950, CL.2.2
AEROSOLS
LIMITED QUANTITY
NET WEIGHT: 113,00 KG
NET WEIGHT: 117,00 KG
EMERGENCY CONTACT NO.:
+49 176 10859177
UN 1805/CLASS 8/PG III
IMO GROSS WEIGHT: 11,000
KGS
IMO NET WEIGHT : 1,000
KGS
UN 1950/CLASS 2.2/PG
IMO GROSS WEIGHT: 117,000
KGS
IMO NET WEIGHT : 113,000
KGS
8 PALLETS GROSS WEIGHT: 7590.000 KGS MEASUREMENT: 13.519 CBM
S.T.C. 300 PAPERBAGS
HEUCODUR YELLOW 152 (P)
(HARMLESS)
HEUCOPHOS ZCP-PLUS
HS CODE:28352990,32064970
IMO CLASS: 9
UN NO.: 3077
PACKAGING GROUP: III
NET WEIGHT: 6000 KG
MARINE POLLUTANT
* Y SUDARSHAN MEXICO MFG,
S.A. DE C.V
PLASTICOS NO. 28, COL
SANTA CLARA COATILA
ECATEPEC DE MORELOS 55540,
EDO. MEXICO, MEXICO

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

RFC CPA150831D6A
PHONE: (5255) 4352 4372
ATTENTION TO:
ANA ISABEL PERALTA / MAIL
TO:
ANASABEL.PERALTA1@SUDARSH
AN.COM
JUAN.ESCALONA@SUDARSHAN.CO
M
LOGISTICS-HEUBACH-MX@HEUBA
CH.COM
IMPORT-DESK-LATAM@HEUBACH.
COM
1 PALLET GROSS WEIGHT: 130.000 KGS MEASUREMENT: 0.334 CBM
BALL BEARING
HS: 84821090
INVOICE: 94685964
1 PKG GROSS WEIGHT: 98.000 KGS MEASUREMENT: 0.179 CBM
HELICAL GEARED MOTOR
HS: 84779080
1 PKG GROSS WEIGHT: 1078.000 KGS MEASUREMENT: 1.014 CBM
S.L.A.C.
ALUMINIUM-STRIPS -
H.S.CODE 7606.1292
3 CASES GROSS WEIGHT: 3468.000 KGS MEASUREMENT: 2.359 CBM
CADENA, GRILLETE
HS CODE: 73158200,
73159000
2 PKG GROSS WEIGHT: 290.000 KGS MEASUREMENT: 1.248 CBM
AUTOMOTIVE PARTS
HS CODE:87089910
1 PKG GROSS WEIGHT: 197.000 KGS MEASUREMENT: 1.756 CBM
CONVOTHERM COMBI STEAMER
NCM-CODE-NO:
841981,841990
WOODEN PACKAGING IS

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

TREATED AND/OR FUMIGATED
IN ACCORDANCE WITH THE
ISPM 15 REGULATIONS AS PER
THE DEPARTMENT OF
AGRICULTURE ANIMAL AND
PLANT HEALTH INSPECTION
SERVICES ("APHIS")
1 PKG GROSS WEIGHT: 183.500 KGS MEASUREMENT: 1.018 CBM
AUTOMOTIVE SPARE PARTS HS
-CODE: 392630
HSCODE: 392630
3 PALLETS GROSS WEIGHT: 704.000 KGS MEASUREMENT: 3.215 CBM
MATERIAL DIDACTICO Y
LIBROS
(PARTIDA 3926, 4901, 4903,
4905, 4911 Y
9503)
HS-CODE: 39261000,
49019100, 49019900,
49030000, 49052000,
49119900, 95030095
INCL. 14 DAYS STORAGE
EXPRESS RELEASE
2 PALLETS GROSS WEIGHT: 63.000 KGS MEASUREMENT: 0.440 CBM
1 PALLET BOLTS GROSS 38 KGS, NET 25 KGS TREATED AND CERTIFIED
1 PALLET BOLTS GROSS 25 KGS, NET 12 KGS TREATED AND CERTIFIED
HS-CODE: 73181595

MRSU3859357 40 DRY 9'6 54 PACKAGE 19089.564 KGS 55.290 CBM
Shipper Seal : B052457
IMO Class: 2.2
UN Number: 1950
IMO Class: 9
UN Number: 3077
IMO Class: 8
UN Number: 1805

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

IMO Class: 4.3
UN Number: 1428

The Merchant(s) warrant and represent that this shipment and/or Goods will comply at all times with European Union, United States and United Nations sanctions and/or export control laws (Sanctions Laws), and that this shipment and/or Goods do not involve, whether directly or indirectly, any entity or person identified, or owned or controlled by any such entity or person identified, on the U.S. Treasury Departments Office of Foreign Asset Control (OFAC) list of Specially Designated Nationals and Blocked Persons, or any other similar list maintained by the European Union, or as promulgated by the United Nations Security Council (Designated Person). If, in the Carriers reasonable opinion, this shipment and/or Goods are in violation of the Carriers policy on Russia [<https://www.maersk.com/news/articles/2022/02/24/russia-ukraine-situation-update>], Sanctions Laws or involves any Designated Person, the shipment and/or Goods will be returned to the origin at Carriers sole and unfettered discretion, and the Merchant(s) shall indemnify and hold harmless the Carrier, its servants and agents, for any breach of this clause. The Merchant(s) agree that the Carrier may stop the shipment and/or Goods in transit or withhold release of the shipment and/or Goods pending any investigation into compliance with this clause by the Merchant(s).

SHIPPER'S LOAD, STOW, WEIGHT AND COUNT

FREIGHT PREPAID

Applicable free time 14 days Combined (Detention & Demurrage) at (port of discharge / place of delivery)
CY/CY

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

**MAERSK****NON-NEGOTIABLE WAYBILL**

SCAC MAEU

B/L No. 721332619

Shipper (As principal, where "care of", "c/o", or other variants used.)
SACO SHIPPING GMBH
AS AGENT OF SACO SHIPPING LINE LTD
BGM.-SMIDT-STR.128
D-28195 BREMEN
GERMANY / DE118597456

Booking No.
721332619

Export references
605BRE5282 LBR

Svc Contract
299542652

Consignee (Negotiable only if consigned "to order", "to order of" a named Person or "to order of bearer".
As principal, where "care of", "c/o", or other variants used.)

INTERTEAM, S.A. DE C.V. COLIMA 114,
INT 201 COLONIA ROMA, C.P. 06700
MEXICO CITY. TEL: +525555149897
TAX ID: INT961206ES7
CTC: MARCELA GODINEZ

This contract is subject to the terms, conditions and exceptions, including the law & jurisdiction clause and limitation of liability & declared value clauses, of the current Maersk Bill of Lading (available from the Carrier, its agents and at terms.maersk.com/carriage), which are applicable with logical amendments (mutatis mutandis). To the extent necessary to enable the Consignee to sue and to be sued under this contract, the Shipper on entering into this contract does so on his own behalf and as agent for and on behalf of the Consignee and warrants that he has the authority to do so. The shipper shall be entitled to change the Consignee at any time before delivery of the goods provided he gives the Carrier reasonable notice in writing.
Delivery will be made to the Consignee or his authorised agent on production of reasonable proof of identity (and, in the case of an agent, reasonable proof of authority) without production of this waybill. The Carrier shall be under no liability whatsoever for misdelivery unless caused by the Carrier's negligence.

Onward inland routing (Not part of Carriage as defined in clause 1. For account and risk of Merchant)

Notify Party (see clause 22)

INTERTEAM, S.A. DE C.V. COLIMA 114,
INT 201 COLONIA ROMA, C.P. 06700
MEXICO CITY. TEL: +525555149897
TAX ID: INT961206ES7
CTC: MARCELA GODINEZ

Vessel
GSL MARIA

Voyage No.
621W

Place of Receipt. Applicable only when document used as Multimodal Waybill

Port of Loading
Bremerhaven

Port of Discharge
Veracruz *

Place of Delivery. Applicable only when document used as Multimodal Transport B/L. (see clause 1)

PARTICULARS FURNISHED BY SHIPPER

Kind of Packages; Description of goods; Marks and Numbers; Container No./Seal No.

1 Container Said to Contain 54 PACKAGE

MRSU 385935-7 40/DRY 9'6
3 PKG GROSS WEIGHT: 390.000 KGS MEASUREMENT: 1.584 CBM
300KG BINAL (NATRIUM IN
TIN FOIL)
UN 1428, NATRIUM, 4.3, IL
(B/E)
ORDER:26.5.9-AS
HS-CODE:28051100
1 PALLET GROSS WEIGHT: 164.100 KGS MEASUREMENT: 0.682 CBM
TEGOSOFT CR MB
HS-CODE: 291819
6 DRUM
6 PALLETS GROSS WEIGHT: 674.148 KGS MEASUREMENT: 5.587 CBM
RING GEAR,
MOTOR BEARING
INTERMEDIATE BEARING

Weight
19089.564 KGS

Measurement
55.290 CBM

COPY

Above particulars as declared by Shipper, but without responsibility of or representation by Carrier.

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

Carrier's Receipt. Total number of containers or
packages received by Carrier.

1 container

Place of Issue of Waybill
Hamburg

Shipped on Board Date (Local Time)
2026-05-30

Date Issue of Waybill
2026-05-30

Declared Value Charges (see clause 7.3 of the Maersk Bill of
Lading) for Declared Value of US\$

Shipped, as far as ascertained by reasonable means of checking, in apparent good order and condition unless otherwise stated herein the total number or quantity of Containers or other packages or units indicated in the box opposite entitled "Carrier's Receipt"

Signed for the Carrier Maersk A/S

This transport document has one or more numbered pages

Maersk Deutschland A/S & Co.KG
As Agent(s)

HS: 84879090
INVOICES:
518767
518769
518770
12 PACKAGES GROSS WEIGHT: 1452.816 KGS MEASUREMENT: 11.290 CBM
INTERMEDIATE BEARING,
MOTOR BEARING
HS: 84879090
INVOICES:
518793
518794
518795
518796
1 PKG GROSS WEIGHT: 297.000 KGS MEASUREMENT: 0.989 CBM
CLAMPING SYSTEMS HS-CODE:
392690,730451, 731815,
761090
HSCODE: 392690
8 PACKAGES GROSS WEIGHT: 2310.000 KGS MEASUREMENT: 10.076 CBM
WELDING TORCHES AND
SPAREPARTS
REF# 32601857 + 32602089
HS-CODES: 820411, 851590,
381090, 390422, 391739,
391740, 392321, 392690,
401693, 481910, 681599,
731815, 732020, 732690,
820320, 820780, 841410,
842139, 845690, 846630,
847989, 848120, 848390,
848790, 851590, 854449
IMO INFO:
UN1805, CL. 8
PHOSPHORIC ACID, SOLUTION

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

LIMITED QUANTITY
NET WEIGHT: 1,00 KG
BRUTTO WEIGHT: 11,00 KG
UN1950, CL.2.2
AEROSOLS
LIMITED QUANTITY
NET WEIGHT: 113,00 KG
NET WEIGHT: 117,00 KG
EMERGENCY CONTACT NO.:
+49 176 10859177
UN 1805/CLASS 8/PG III
IMO GROSS WEIGHT: 11,000
KGS
IMO NET WEIGHT : 1,000
KGS
UN 1950/CLASS 2.2/PG
IMO GROSS WEIGHT: 117,000
KGS
IMO NET WEIGHT : 113,000
KGS
8 PALLETS GROSS WEIGHT: 7590.000 KGS MEASUREMENT: 13.519 CBM
S.T.C. 300 PAPERBAGS
HEUCODUR YELLOW 152 (P)
(HARMLESS)
HEUCOPHOS ZCP-PLUS
HS CODE:28352990,32064970
IMO CLASS: 9
UN NO.: 3077
PACKAGING GROUP: III
NET WEIGHT: 6000 KG
MARINE POLLUTANT
* Y SUDARSHAN MEXICO MFG,
S.A. DE C.V
PLASTICOS NO. 28, COL
SANTA CLARA COATILA

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

ECATEPEC DE MORELOS 55540,
EDO. MEXICO, MEXICO
RFC CPA150831D6A
PHONE: (5255) 4352 4372
ATTENTION TO:
ANA ISABEL PERALTA / MAIL
TO:
ANASABEL.PERALTA1@SUDARSH
AN.COM
JUAN.ESCALONA@SUDARSHAN.CO
M
LOGISTICS-HEUBACH-MX@HEUBA
CH.COM
IMPORT-DESK-LATAM@HEUBACH.
COM
1 PALLET GROSS WEIGHT: 130.000 KGS MEASUREMENT: 0.334 CBM
BALL BEARING
HS: 84821090
INVOICE: 94685964
1 PKG GROSS WEIGHT: 98.000 KGS MEASUREMENT: 0.179 CBM
HELICAL GEARED MOTOR
HS: 84779080
1 PKG GROSS WEIGHT: 1078.000 KGS MEASUREMENT: 1.014 CBM
S.L.A.C.
ALUMINIUM-STRIPS -
H.S.CODE 7606.1292
3 CASES GROSS WEIGHT: 3468.000 KGS MEASUREMENT: 2.359 CBM
CADENA, GRILLETE
HS CODE: 73158200,
73159000
2 PKG GROSS WEIGHT: 290.000 KGS MEASUREMENT: 1.248 CBM
AUTOMOTIVE PARTS
HS CODE:87089910
1 PKG GROSS WEIGHT: 197.000 KGS MEASUREMENT: 1.756 CBM
CONVOTHERM COMBI STEAMER

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

NCM-CODE-NO:
841981,841990
WOODEN PACKAGING IS
TREATED AND/OR FUMIGATED
IN ACCORDANCE WITH THE
ISPM 15 REGULATIONS AS PER
THE DEPARTMENT OF
AGRICULTURE ANIMAL AND
PLANT HEALTH INSPECTION
SERVICES ("APHIS")
1 PKG GROSS WEIGHT: 183.500 KGS MEASUREMENT: 1.018 CBM
AUTOMOTIVE SPARE PARTS HS
-CODE: 392630
HSCODE: 392630
3 PALLETS GROSS WEIGHT: 704.000 KGS MEASUREMENT: 3.215 CBM
MATERIAL DIDACTICO Y
LIBROS
(PARTIDA 3926, 4901, 4903,
4905, 4911 Y
9503)
HS-CODE: 39261000,
49019100, 49019900,
49030000, 49052000,
49119900, 95030095
INCL. 14 DAYS STORAGE
EXPRESS RELEASE
2 PALLETS GROSS WEIGHT: 63.000 KGS MEASUREMENT: 0.440 CBM
1 PALLET BOLTS GROSS 38 KGS, NET 25 KGS TREATED AND CERTIFIED
1 PALLET BOLTS GROSS 25 KGS, NET 12 KGS TREATED AND CERTIFIED
HS-CODE: 73181595

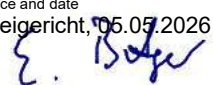
MRSU3859357 40 DRY 9'6 54 PACKAGE 19089.564 KGS 55.290 CBM
Shipper Seal : B052457
IMO Class: 2.2
UN Number: 1950

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §8 GGVSee (IMO-ERKLÄRUNG) TRANSPORT DOCUMENT FOR DANGEROUS GOODS (IMO-DANGEROUS GOODS DECLARATION)

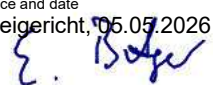
Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III, Regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift) – Shipper (Name & Adresse) Dr. Bilger Umweltconsulting GmbH Gewerbepark Birkenhain 7a D-63579 Freigericht		Buchungsnummer(n) – Reference number(s) Seite 1 von 1			
Empfänger – Consignee FORJAS Y MAQUINAS S DE RL DE CV Y/O UPS SCS Mexico S.A de C.V Eugenia 189 Col. Narvarte Oriente Del. Benito Juarez Ciudad de Mexico, C.P. 030230 TAX ID: UPS891122HV8 fidelantonio.delalanza@tenneco.com		Beförderer – Carrier VECTOR Spedition- und Handels GmbH Aschaffener Str. 82 D-63801 Kleinostheim Per Mail: ops@vector-gmbh.de			
CONTAINER/FAHRZEUG-PACKZERTIFIKAT CONTAINER/VEHICLE PACKING CERTIFICATE ERKLÄRUNG Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde DECLARATION It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1 AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES		Container-/Fahrzeug-Nr.: Container-/Vehicle-No.: Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory Ort und Datum Place and date Unterschrift für den Packer Signature on behalf of packer			
Schiffsname und Nummer der Reise Ship's name and voyage No.		Ladehafen Port of loading			
Löschhafen – Port of discharge Veracruz, Mexico		Frei für Text, Anweisungen und sonstige Angaben Reserved for text, instructions or other matter EMERGENCY CONTACT: Dr. Edgar Bilger Phone: +49-6051-9166951 and +49-172-9863727 (24 hours)			
UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/Unter- Klasse nach IMO IMO-Class	Verpackungs- gruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
1428	Sodium	4.3	I	Natrium Sodium BINAL (Sodium in Aluminium foil)	3 steel drums on three EWP- pallet (80x60x110cm) Packaging code 1A2
Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge/Volumen/Masse Net quantity/volume/mass Netto Explosivstoffmasse *** – Net explosive mass ***		Merkblatt-Nr. für Unfall-Maßnahmen EmS No.	Eigenschaften / Properties Flammpunkt / Flashpoint ** MARINE POLLUTANT ** Kontroll- und Notfalltemperatur ** Control- and emergency temperature **		Güter angeliefert als / Goods delivered as: ☐ Stückgut/Breakbulk cargo ☐ Ladungseinheiten (Unit Loads) Unitized cargo ☐ Bulkverpackungen/Bulk packages Art der Einheit (Container, Anhänger, Tank, Fahrzeug usw.) Type of unit (container, trailer, tank, vehicle etc.) ☐ offen / open ☐ geschlossen / closed
Gross weight: 390 kg Net weight: 300 kg		EMS F-G, S-N	Sodium reacts violently with water		Zutreffendes ankreuzen / Insert „x“ in appropriate box (Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.) (This column may be left empty apart from the heading, in which case insert appropriate description.)
* Marken- oder Herstelleramen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL“ vor den Namen setzen; (2) „LEER UNGEREINIGT“ oder „RÜCKSTÄNDE – ZULETZT ENTHALTEN“ hinzufügen; (3) „BEGRENZTE MENGE“ hinzufügen. ** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1; --- * Proprietary/trade names alone are not sufficient. If applicable: (1) the word „WASTE“ should precede the name; (2) „EMPTY UNCLEANED“ or „RESIDUE – LAST CONTAINED“ should be added; (3) „LIMITED QUANTITY“ should be added. ** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;					
ZUSÄTZLICHE ANGABEN – Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite). ADDITIONAL INFORMATION – In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).					
ERKLÄRUNG Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand. DECLARATION I hereby declare that the contents of this consignment are fully and accurately described by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.			Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory Dr. Edgar Bilger Ort und Datum Place and date Freigericht, 05.05.2026  Unterschrift für den Versender Signature on behalf of shipper		

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach §8 GGVSee (IMO-ERKLÄRUNG) TRANSPORT DOCUMENT FOR DANGEROUS GOODS (IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III, Regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift) – Shipper (Name & Adresse) Dr. Bilger Umweltconsulting GmbH Gewerbepark Birkenhain 7a D-63579 Freigericht		Buchungsnummer(n) – Reference number(s) Seite 1 von 1			
Empfänger – Consignee FORJAS Y MAQUINAS S DE RL DE CV Y/O UPS SCS Mexico S.A de C.V Eugenia 189 Col. Narvarte Oriente Del. Benito Juarez Ciudad de Mexico, C.P. 030230 TAX ID: UPS891122HV8 fidelantonio.delalanza@tenneco.com		Beförderer – Carrier VECTOR Speditions- und Handels GmbH Aschaffener Str. 82 D-63801 Kleinostheim Per Mail: ops@vector-gmbh.de			
CONTAINER/FAHRZEUG-PACKZERTIFIKAT CONTAINER/VEHICLE PACKING CERTIFICATE ERKLÄRUNG Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde DECLARATION It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1 AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES		Container-/Fahrzeug-Nr.: Container-/Vehicle-No.: Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory Ort und Datum Place and date Unterschrift für den Packer Signature on behalf of packer			
Schiffsname und Nummer der Reise Ship's name and voyage No.		Ladehafen Port of loading			
Löschhafen – Port of discharge Veracruz, Mexico		Frei für Text, Anweisungen und sonstige Angaben Reserved for text, instructions or other matter EMERGENCY CONTACT: Dr. Edgar Bilger Phone: +49-6051-9166951 and +49-172-9863727 (24 hours)			
UN-Nr. UN-No.	Inhalt (richtiger technischer Name) * Proper Shipping Name (Correct technical name) *	Klasse/Unter- Klasse nach IMO IMO-Class	Verpackungs- gruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos, if applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
1428	Sodium	4.3	I	Natrium Sodium BINAL (Sodium in Aluminium foil)	3 steel drums on three EWP- pallet (80x60x110cm) Packaging code 1A2
Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Nettomenge/Volumen/Masse Net quantity/volume/mass Netto Explosivstoffmasse *** – Net explosive mass ***		Merkblatt-Nr. für Unfall-Maßnahmen EmS No.	Eigenschaften / Properties Flammpunkt / Flashpoint ** MARINE POLLUTANT ** Kontroll- und Notfalltemperatur ** Control- and emergency temperature **		Güter angeliefert als / Goods delivered as: ☐ Stückgut/Breakbulk cargo ☐ Ladungseinheiten (Unit Loads) Unitized cargo ☐ Bulkverpackungen/Bulk packages Art der Einheit (Container, Anhänger, Tank, Fahrzeug usw.) Type of unit (container, trailer, tank, vehicle etc.) ☐ offen / open ☐ geschlossen / closed
Gross weight: 390 kg Net weight: 300 kg		EMS F-G, S-N	Sodium reacts violently with water		Zutreffendes ankreuzen / Insert „x“ in appropriate box (Diese Spalte kann bis auf die Überschrift freigelassen werden; in diesem Fall ist die zutreffende Beschreibung einzusetzen.) (This column may be left empty apart from the heading, in which case insert appropriate description.)
* Marken- oder Herstelleramen allein sind nicht ausreichend. Falls zutreffend: (1) das Wort „ABFALL“ vor den Namen setzen; (2) „LEER UNGEREINIGT“ oder „RÜCKSTÄNDE – ZULETZT ENTHALTEN“ hinzufügen; (3) „BEGRENZTE MENGE“ hinzufügen. ** Falls nach Kapitel 5.4 IMDG-Code erforderlich; *** Nur bei Stoffen der Klasse 1; --- * Proprietary/trade names alone are not sufficient. If applicable: (1) the word „WASTE“ should precede the name; (2) „EMPTY UNCLEANED“ or „RESIDUE – LAST CONTAINED“ should be added; (3) „LIMITED QUANTITY“ should be added. ** When required in chapter 5.4 of the IMDG-Code; *** Class 1 only;					
ZUSÄTZLICHE ANGABEN – Unter bestimmten Bedingungen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite). ADDITIONAL INFORMATION – In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (see backside).					
ERKLÄRUNG Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und nationalen Vorschriften klassifiziert, verpackt, beschriftet und gekennzeichnet/plakatiert und befinden sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand. DECLARATION I hereby declare that the contents of this consignment are fully and accurately described by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations.			Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory Dr. Edgar Bilger Ort und Datum Place and date Freigericht, 05.05.2026  Unterschrift für den Versender Signature on behalf of shipper		

MATERIAL SAFETY DATA SHEET

according (EG) 1907/2006 (Reach), revised with 2020/878/EU

date of issue: 15.01.2009

revised 02:04:2024

product: BINAL

version: 2.0 /ENG supersedes VERSION 1:0/EN



Dr. Bilger Umweltconsulting GmbH

page 1 of 11

MATERIAL SAFETY DATA SHEET**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name:

BINAL®

REACH registration No.: 01-2119484805-27-0002

1.. Relevant identified uses of the substance or mixture and uses advised against

Identified use: Chem. production, metallurgy, additive for aluminium casting, production of Polyamid12, conditioning and etching of fluorinated plastics, dehalogenation and desulfuration of mineral oil, as a reducing agent for chemical syntheses

uses advised against: any non-industrial and/or scientific related application

1.3 Details of the supplier of the safety data sheet

Supplier Dr. Bilger Umweltconsulting GmbH
Gewerbepark Birkenhain 7a
D-63579 Freigericht

Telefon: +49-(0)6051-916695

e-Mail: info@bilgergmbh.de

1.4 Emergency telephone number

Emergency telephone: Tel.: +49-(0)6051-91669-51
This number is only active during normal opening hours.

Emergency support **Information Munich: +49/ (0)89 19240**

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Regulation (EG) No. 1272/2008,	
Hazard class/- category	Hazard notes
in contact with water releases flammable gases which may ignite spontaneously (category 1)	H260
Causes severe skin burns (subcategory 1B) and severe eye damage (category 1)	H314

2.2 Label elements

MATERIAL SAFETY DATA SHEET

according (EG) 1907/2006 (Reach), revised with 2020/878/EU

date of issue: 15.01.2009

revised 02:04:2024

product: BINAL

version: 2.0 /ENG supersedes VERSION 1:0/EN

page 2 of 11



Dr. Bilger Umweltconsulting GmbH



GHS02



GHS05

Signal word: DANGERHazard statements

H260 in contact with water releases flammable gases which may ignite spontaneously
 H314 Causes severe skin burns and eye damage.

Precautionary statements:

Precautionary statements Precaution

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Precautionary statements Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuous rinsing.
 P370+P378 In case of fire: Use metal fire powder for extinction. NO WATER.
 P308+P311 IF exposed or concerned: immediately call a POISON CENTER or doctor/physician.

Precautionary statements Storage:

P402+P404 Store in a dry place. Store in a closed container

Additional precautions

EUH014 reacts violently with water

2.3 Other hazards**Results of the PBT and vPvB assessment**

According to the results of its assessment, this substance is neither a PBT nor a vPvB substance.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients**3.1 Substance:** sodium, chemical element, metal (Na)

Formule Na
Mol. Weight: 22.98 g/mol
CAS-No.: 7440-23-5
EG-Nr.: 213-132-9
EINECS: 231-132-9
Index-No.: 011-001-00-0
Purity: >99.9 %

3.2 Mixture: not applicable:**SECTION 4: First aid measures**

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4.1 Description of First aid measures

General information: Remove contaminated clothing immediately. In case of health
Consult a doctor if health problems occur.

After inhalation: Move immediately to fresh air after inhalation of smoke produced by the
reactions. If unconscious, keep on the side and seek medical advice.
Remove to fresh air. Oxygen or artificial respiration if necessary. Call a
doctor immediately.

After skin contact: Remove metal with spatula and then rinse with plenty of water.
In case of contact with liquid sodium, remove clothing immediately,
Remove sodium with dry cloth, wash with plenty of water,
consult a doctor.

After eye contact: Immediately remove metal carefully. Remove contact lenses. Then rinse
thoroughly with
Rinse thoroughly with plenty of water until a doctor arrives.

After ingestion: Do NOT induce vomiting. Rinse out mouth. Give plenty of water to drink;
Consult a doctor immediately.

Notes for physician: Medical treatment according to alkali burn.
Show this safety data sheet to the doctor in attendance.

4.2 Most important symptoms and effects, both acute and delayed.

Symptoms: Ingestion may cause the following symptoms: Burning, Pain, Diarrhoea,
Vomiting, Decreased blood pressure, Respiratory problems, Symptoms
may be delayed.

Inhalation may cause the following symptoms: Irritating to respiratory
system, altered lung function or difficulty breathing.

Skin contact may cause the following symptoms: Burn

Eye contact may cause the following symptoms: Burn

Health effects from repeated exposure may include: Irritation of the
respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed.

Treatment: Delayed rupture or constriction of the gastrointestinal tract may occur
after ingestion. Close monitoring is recommended.

SECTION 5: Firefighting measures

5.1 Extinguishing Media

Suitable: Dry soda ash, Extinguishing powder class D, dry salt, dry concrete

Unsuitable: Water, CO₂, extinguishing agents class A, B, C, E and foam

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5.2 Special hazards arising from substance or mixture

Product releases hydrogen gas on contact with water.
Emits toxic fumes under fire conditions.

5.2 Advice for firefighters

Keep away from sources of ignition due to possible formation of hydrogen;
Do not inhale fumes under any circumstances; risk of chemical burns to mucous membranes,
Move people immediately to the side facing away from the wind
In case of fire, wear self-contained breathing apparatus against corrosive
oxide smoke. Wear full chemical protection suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

Use appropriate protective equipment (including the personal protective equipment mentioned in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing.
Contamination of skin, eyes and personal clothing.
Avoid contact with skin, eyes and clothing.

6.1.2 For emergency responders:

Use personal protective equipment (such as Nomex). Avoid dust formation.
Avoid breathing dust. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so.
Do not let product enter drains. Risk of explosions

6.3 Methods and material for containment and clean-up

Cover drains
Pick up mechanically and arrange disposal without creating dust.
Do not flush with water. Keep in suitable, closed containers for disposal.
Dispose of in suitable containers

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. incompatible materials: see section 10.
disposal information: see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe Handling**

Open and handle container with care. Store sodium under paraffin oil, nitrogen or argon.
Protect from moisture-
Always keep containers tightly closed. The work area must be well ventilated. Wash hands before breaks and at the end of work. Keep away from food and drink. Do not smoke while working.

7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and containers:

dry, no sprinkler system, floor level raised compared to surroundings

Information on storage together:

Corresponding to storage class 4.3 (substances that form flammable gases on contact with water).

Observe storage prohibitions. Do not store together with highly flammable liquids

Further information on storage conditions

Recommended storage temperature: 10 -30° C

7.3 Specific end use(s) no information available**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Additional advices for design of technical equipment:**

provide fire extinguisher metal class D

Risk of corrosion

Exposure limit values: Not applicable**8.2 Exposure controls****Personal Protection****General protection**

avoids any contact with eyes and skin.
No eating, drinking or smoking allowed
Keep workplace dry

Respiratory Protection:

Normally there is no respiration protection necessary.
In exceptional case (at example: accidental release) it is necessary to wear respiration protection.

Hand Protection:

nitrile covered gloves

Protective gloves must comply with the EC Directive 89/686/EEC and the related standards EN 374. Check tightness before use.

Recommended for example:

- Material: NBR (Nitril rubber)
 - Thickness: > 0.11 mm.
 - break through time: > 480 Minutes (Permeation level 6)
- Take rest periods to regenerate the skin. Preventive skin protection (protective creams/ointments) is recommended.

Eye Protection:

splash goggles, in exceptional cases it is necessary to wear a full length face shield

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Body protection: Generally flame-retardant protective clothing.
Special protective clothing is required when working with large quantities of sodium; manufacturer's list available on request

Limiting and monitoring exposure:

Prevent from entering the sewage system or surface and ground water.
groundwater. Explosion hazard.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a) Physical state:	solid
b) Colour:	silvery
c) Odour:	odourless
d) Melting point	97.8 °C
e) Boiling point	892 °C
p) Density (20 °C)	0,97 g/cm ³

9.2 Other information none

SECTION 10: Stability and reactivity

10.1 Reactivity see section 10.3

10.2 Chemical stability sensitive to moisture

10.3. Possibility of hazardous reactions

Explosion hazard and risk of ignition or formation of flammable gases or vapors with:

Water, alcohols, aluminium halides, ammonium compounds, metal salts, boron compounds, bromine, azides, halogenated hydrocarbons, organ. halogenides, chlorine, chlorates, chloroform, hydrogen chloride gas, chromium(VI) oxide, dichloromethane, ether, dimethylformamide, halogen oxides, ethanol, methanol, alkyl nitrates, nitrites, fluorine, halogens, hydrazines, hydrazine hydrate, hydroxylamine, iodine, halogen-halogen compounds, peroxides, activated carbon, carbon monoxide, copper compounds, metal oxides, organic nitro compounds, heavy metal salts, perchlorates, phosphorus halides, phosphorus oxides, silicon compounds, silver compounds, selenium, sulphur dioxide, carbon disulphide, hydrogen sulphide, sulphur, acid chlorides, oxygen, hydrochloric acid, nitric acid, mercury compounds, mercury, nitrogen dioxide

10.4 Conditions to avoid

Conditions to be avoided: High humidity, high temperature

10.5 Incompatible materials: see section 10.3

10.6. Hazardous decomposition products: see section 5

SECTION 11: Toxicological information

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11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) acute toxicity;	Mucous membrane irritation, cough, shortness of breath, Possible consequences: Damage to the respiratory tract
acute oral toxicity:	If swallowed, severe causticity of the mouth and throat and risk of perforation of the oesophagus and stomach.
b) skin corrosion/irritation;	Corrosive effect on skin and mucous membranes
c) serious eye damage/irritation;	Strong corrosive effect. Causes severe eye damage
d) respiratory or skin sensitisation;	no information available
e) germ cell mutagenicity;	no information available
f) carcinogenicity;	no information available
g) reproductive toxicity;	no information available
h) STOT-single exposure;	no information available
i) STOT-repeated exposure;	no information available
j) aspiration hazard:	no information available

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**Contains no endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.**11.2.2 Other information**

Decomposition of the substance with the moisture of the tissues. The usual precautionary measures for handling chemicals must be observed.

SECTION 12: Ecological information

12.1 Toxicity:	No information available.
12.2 Persistence and degradability:	No information available.
12.3 Bioaccumulative potential:	No information available.
12.4 Mobility in soil:	No information available.
12.5 Results of PBT and PBT/vPvB:	Not applicable for inorganic substances.
12.6 Endocrine disrupting properties	Contains no endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.
12.7 Other adverse effects	decomposition product reacting with water: Sodium hydroxide Entry into the environment must be avoided.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product	Call the supplier for technical advice in the individual case. Pick up the material and transfer in dry drum, close tightly and store in UN-x-coded transport drum. Sodium disposal must not be attempted by inexperienced people. Transport to incineration plant according to ADR-regulation No. 4.3; I
Large quantities	collect in steel drum and cover with dry oil.
Small quantities	pick up in a small steel bin, let react with Isopropanol, then add water in small quantities

Packaging

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Steel Packaging	clean with isopropanol carefully if necessary and rinse with water before disposal. Do not drain into municipal water system.
Emptied packaging:	Household waste or to recycling companies
Other information	the six-digit waste code is used in accordance with AVV industry-, process-type-, origin- and material-specific, Dispose of in accordance with federal, state and local regulations. Observe Waste Directive 2008/98/EC.

SECTION 14: Transport information**14.1 UN number or ID number:** UN1428**14.2 UN proper shipping name:**

ADR/RID/ADN

NATRIUM

IMDG-Code

SODIUM

ICAO-TI

Sodium

14.3 Transport hazard class(es): 4.3**14.4 Packing group:** I**14.5 Environmental hazards:** Not hazardous to the environment according to dangerous goods regulations**14.6 Special precautions for user****14.7 Maritime transport in bulk according to IMO instruments**

Not transported as bulk cargo.

Rail and Road ADR/RID/GGVSE:

ADR/RID-GGVSE class: 4.3 (W2) Material that emits flammable gases on contact with water.

Kemler-Zahl: X423

UN-NO: 1428

Packaging Group: I

Lable: 4.3

Identification: 1428 Sodium

Limited quantity (LQ): LQ0

Transport category: 1

Tunnel restriction code: B/E

**Sea IMDG/GGVSea:**

IMDG/GGVSea-class: 4.3

UN-NO: 1428

Lable: 4.3

Packaging Group: I

Limited quantity (LQ): LQ0

Identification: SODIUM

EMS: F-G S-N

Air ICAO-TI und IATA-DGR:



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ICAO/IATA-class: 4.3
UN/ID-NO: 1428
Lable 4.3
Packaging Group: I
Identification: SODIUM
IATA (Passenger): Transport forbidden
IATA (cargo plane): Transport accepted
UN "Model Regulation ": UN1428, Sodium, 4.3, I

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****- Seveso Directive**

2012/18/EU (SevesoIII)				
No.	Hazardous substance/hazard categories	Quantity threshold (in tonnes) for use in factory lower and upper classes		Note
01	other hazards (EUH014)	100	500	58)
02	other hazards (water react., cat. 1)	100	500	59)

Note

58) Substances or mixtures with the hazard statement EUH014

59) Substances and mixtures which, in contact with water, emit flammable gases, hazard category 1

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at Work

Regulation (EC) No 1006/2009 on substance that deplete the ozone layer:

not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Dir. 79/117/EEC:

not regulated

Substances of very high concern (SVHC):

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (EACH), Article 57 above respective regulatory concentration limit of $\geq 0.1\%$ (w/w).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product for quantities below 10 tons or more per year per registrant.

SECTION 16: Other information**a) Indication of where changes have been made to the previous version**

Kap. 2.3 new design

Kap. 5.4 and 5.3 combined under 5.3

Kap. 5.5 deleted

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Kap.7.2 title adjusted and text revised
 Kap. 8.1 und 8.2 title adjusted and text revised
 Kap. 9 adjusted to legislation 2020/8978/EU
 Kap. 10.5 and 10.6 new
 Kap. 11.2 Text revised
 Kap. 12.6 and 12.7 revised
 Section 14 Layout new
 Kap. 15.1 Merkblatt M019 Natrium new in the list
 Kap. 16b Legend to abbreviations inserted

b) Legend to abbreviations

ADR Accord relatif au transport international des marchandises dangereuses par route
 (Convention concerning the International Carriage of Dangerous Goods by Road)
 IATA International Air Transport Association

IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA)

ICAO International Civil Aviation Organization

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Règlement concernant le transport International ferroviaire des marchandises
 Dangereuses (Regulations concerning the International Carriage of Dangerous Goods by
 Rail)

PBT Persistent, Bioaccumulative and toxic

vPvB Very Persistent and very Bioaccumulative

c) Literature

Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances
 and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

e) Full text of H-statements referred to under sections 2 and 3.**Labelling**

Hazard pictograms



Signal word Danger

Hazard statements

H260 in contact with water releases flammable gases which may ignite spontaneously

H314 Causes severe skin burns and eye damage

EUH014 Reacts violently with water

Precautionary statements

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Prevention

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuous rinsing.
P370+P378 In case of fire: Use metal fire powder for extinction. NO WATER.
P308+P311 IF exposed or concerned: immediately call a POISON CENTER or doctor/physician.

Storage

P402+P404 Store in a dry place. Store in a closed container

f) Training advice

Provide adequate information, instruction and training operators.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

This information is taken from sources based upon data believed to be reliable.

However, Dr. Bilger Umweltconsulting GmbH makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.

Local laws and regulations have to be considered by the customer upon own responsibility.

Dr. Bilger Umweltconsulting GmbH
 Gewerbepark Birkenhain 7a, 63579 Freigericht
 Sicherheitsdatenblatt gemäß Verordnung (EG)
 1907/2006 (Reach)
 erstellt am: 15.01.2009
 überarbeitet am: 12.05.2016



Dr. Bilger Umweltconsulting GmbH

Druckdatum: 13.05.2016
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SICHERHEITSDATENBLATT

Gemäß Verordnung (EG) 1907/2006 (REACH)

1. Stoff-, Zubereitungs- und Firmenbezeichnung

1.1 Bezeichnung des Stoffes/der Zubereitung

Handelsname:

Natrium

REACH Registrierungsnummer: Vorregistrierungsnummer 05-2114257078-45-0000

1.2 Verwendung des Stoffes/der Zubereitung

- 1.2.1 Identifizierte Verwendungen: Chemische Produktion, Metallurgie, Bleiraffination, Veredelungsmittel für Aluminiumguss, Herstellung von Polyamid12, Bearbeitung oder Ätzen von fluorierten Kunststoffen, Dehalogenierung und Entschwefelung von Mineralöl, als Reduktionsmittel in der chemischen Synthese

Unter Einhaltung der in der Anlage zu diesem SDB beschriebenen Bedingungen.

1.3 Bezeichnung des Unternehmens

Lieferant /Hersteller/ Dr. Bilger Umweltconsulting GmbH
 Importeur/nachgeschalteter Gewerbepark Birkenhain 7a
 Anwender/Händler DE-63579 Freigericht
 Telefon: +49-(0)6051-9166951

e-Mail (fachkundige Person) info@bilgergmbh.de

Kontaktstelle für Information Abt. F+E : Telefon: +49-(0)6051-91669-54

Nationaler Ansprechpartner Abt. F+E : Telefon: +49-(0)6051-91669-54

- 1.4 **Notfallauskunft/:** Tel.: +49-(0)6051-91669-51
Notfallnummer Diese Nummer ist nur zu Bürozeiten besetzt.

2. Mögliche Gefahren

2.1 Einstufung:

Verordnung (EG) Nr. 1272/2008,	Anhang VII
Gefahrenklasse/- kategorie	Gefahrenhinweis
Wassergefährdungsklasse 1	H260
Skin Corr. 1B	H314

67/548/EWG oder 1999/45/EG	
Gefährlichkeitsmerkmal	R-Sätze
Leichtentzündlich (F)	R 14/15
Ätzend (C)	R 34



2.2 Kennzeichnungselemente



Flamme



Ätzwirkung

Gefahr

H260	In Berührung mit Wasser entstehen entzündbare Gase, die sich spontan entzünden können.
H314	Verursacht schwere Verätzungen der Haut und schwere Augenschäden.
EUH014	Reagiert heftig mit Wasser
P223	Kontakt mit Wasser wegen heftiger Reaktion und möglichem Aufflammen unbedingt verhindern.
P280	Schutzhandschuhe / Schutzkleidung / Augenschutz / Gesichtsschutz tragen.
P303 + P361 + P353	BEI KONTAKT MIT DER HAUT (oder dem Haar): Alle beschmutzten, getränkten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen/duschen.
P305 + P351 + P338	BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.
P370 + P378	Bei Brand: Metallbrandpulver Klasse D zum Löschen verwenden.
P402 + P404	In einem geschlossenen Behälter an einem trockenen Ort aufbewahren

2.3 Sonstige Gefahren

Keine Daten vorhanden

3. Zusammensetzung / Angaben zu Bestandteilen

3.1 Angaben zum Stoff: Natrium, chemisches Element, Metall

CAS-Nr.: 7440-23-5
 EG-Nr.: 213-132-9
 EINECS: 231-132-9
 Index-Nr.: 011-001-00-0
 VorregistrierungsNr.: 05-2114257078-45-0000
 Reach RegistrierungsNr.: 01-2119484805-27-0001

Reinheit: >99.9 %

3.2 Zusätzliche Hinweise:

Die Übergangsfrist gemäß REACH-Verordnung, Artikel 23, ist noch nicht abgelaufen.

4. Erste-Hilfe-Maßnahmen

4.1 Beschreibung der Erste-Hilfe-Maßnahmen

Allgemeine Hinweise: Beschmutzte Kleidung sofort ausziehen. Bei Auftreten von Gesundheitsstörungen Arzt hinzuziehen.

nach Einatmen: Nach Einatmen des bei den Reaktionen entstehenden Rauchs sofort an die frische Luft gehen. Bei Bewusstlosigkeit stabile Seitenlage anwenden



und ärztlichen Rat einholen. An die frische Luft bringen. Sauerstoff oder, falls erforderlich, künstliche Beatmung. Sofort Arzt hinzuziehen.

- nach Hautkontakt:** Metall mit Spatel entfernen und danach mit viel Wasser spülen bei Kontakt mit flüssigem Natrium sofort Kleidung ausziehen, Natrium mit trockenem Tuch entfernen, mit viel Wasser waschen, Arzt aufsuchen.
- nach Augenkontakt:** Metall sofort sorgfältig entfernen. Kontaktlinsen entfernen. Dann bei geöffnetem Lidspalt gründlich mit viel Wasser spülen, bis zum Eintreffen des Arztes weiterspülen.
- nach Verschlucken:** KEIN Erbrechen erzwingen. Mund ausspülen. Viel Wasser trinken lassen; sofort Arzt konsultieren.
- Hinweise für Arzt:** Behandlung wie Laugenverätzung. Dem Arzt Sicherheitsdatenblatt vorlegen.

4.2 Wichtigste akute oder verzögert auftretende Symptome und Wirkungen

- Symptome:** Verschlucken kann folgende Symptome hervorrufen: Verbrennung, Schmerz, Durchfall, Erbrechen, Erniedrigter Blutdruck, Atemprobleme, Symptome können verzögert auftreten.
- Einatmen kann folgende Symptome hervorrufen: Reizt die Atmungsorgane, veränderte Lungenfunktion oder Atemschwierigkeiten.
- Hautkontakt kann folgende Symptome hervorrufen: Verbrennung
- Augenkontakt kann folgende Symptome hervorrufen: Verbrennung
- Zu den Gesundheitsschäden durch wiederholte Exposition können gehören: Reizung der Atmungsorgane.

4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

- Behandlung:** Nach Verschlucken kann ein verspätet auftretender Durchbruch oder eine Verengung des Magen-Darm-Trakts eintreten. Eine genaue Überwachung wird empfohlen.

5. Maßnahmen zur Brandbekämpfung

5.1 geeignete Löschmittel: Metallbrandpulver Klasse D, trockenes Kochsalz, Sand, Zement

5.2 Aus Sicherheitsgründen ungeeignete Löschmittel:

Wasser, CO₂, Löschmittel der Brandklassen A, B, C und E

5.3 Besondere Gefährdung durch den Stoff oder das Produkt selbst, seine Verbrennungsprodukte oder entstehende Gase:

von Zündquellen fern halten wegen möglicher Bildung von Wasserstoff; Verätzung der Schleimhäute, Rauch keinesfalls einatmen; Personen sofort auf windabgewandte Seite bringen

5.4 besondere Schutzausrüstung bei der Brandbekämpfung:

Im Brandfall umluftunabhängigen Atemschutz gegen ätzenden Oxidrauch



5.5 Zusätzliche Hinweise:

Brandklasse: D

6. Maßnahmen bei unbeabsichtigter Freisetzung

6.1 personenbezogene Vorsichtsmaßnahmen: Entfernen von Zündquellen. Gefährdeten Bereich räumen, betroffene Umgebung warnen. Zur Beseitigung des gefährlichen Zustandes darf der Gefahrenbereich nur mit geeigneten Schutzmaßnahmen betreten werden. Feuchtigkeit fernhalten. Atem-, Augen-, Hand- und Körperschutz tragen. Verhindern von Haut- und Augenkontakt

6.2 Umweltschutzmaßnahmen: nicht in die Kanalisation gelangen lassen; Explosionsgefahr!

6.3 Verfahren zur Reinigung/ Aufnahme: Nach Verschütten und Auslaufen kleinerer Mengen vorsichtig trocken aufnehmen und in geeigneten, dicht schließenden X-zugelassenen Behältern sammeln; anschließend mit trockenem Öl abdecken

6.4 Zusätzliche Hinweise: Zündquellen fernhalten, nicht rauchen, offene Flammen vermeiden

7. Handhabung und Lagerung

7.1 Handhabung

7.1.1 Hinweise zum sicheren Umgang Natrium unter Paraffinöl, Stickstoff oder Argon verpackt lagern vor Nässe schützen, Gebinde stets dicht verschlossen halten. Der Arbeitsbereich muss trocken und gut belüftet sein. Personal muss feuerfeste Kleidung, Gestellbrille mit Seitenschutz und nitrilbeschichtete Handschuhe tragen. Mindeststandards gemäß TRGS 500 einhalten. Bei der Gestaltung des Arbeitsverfahrens sind die Modelllösungen der Schutzleitfäden der 100er und 200er-Reihe zu berücksichtigen. (http://www.baua.de/nn_5846/de/Themen-von-A-Z/Gefahrstoffe/EMKG/Schutzleitfaeden)

7.1.1 Hinweise zum Brand- und Explosionsschutz: Ausschluss jeglicher Feuchtigkeit, da mit Wasser heftige Reaktion unter Bildung explosionsfähiger, selbstentzündlicher Wasserstoff-Luft-Gemische (Knallgas). Trocken halten.

7.2 Lagerung

7.2.1 Anforderungen an Lagerräume und Behälter: trocken, keine Sprinkleranlage, Bodenniveau gegenüber Umgebung erhöht
 Anforderung an die Lagerbeschaffenheit gemäß WGK: 1

7.2.2 Zusammenlagerungshinweise: Entsprechend Lagerklasse: siehe Punkt 7.2.4
 nicht mit leicht brennbaren Flüssigkeiten zusammen lagern

7.2.3 Weitere Angaben zu den Lagerbedingungen Empfohlene Lagertemperatur: Lagerung bei Raumtemperatur

7.2.4 Lagerklasse (VCI Konzept) 4.3 Stoffe, die bei Berührung mit Wasser entzündliche Gase bilden.



8. Expositionsgrenzen und persönliche Schutzausrüstung

8.1 Zusätzliche Hinweise zur Ge- Feuerlöscheinrichtungen sind bereitzustellen
staltung techn. Anlagen: Korrosionsgefahr

8.2 Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:

Entfällt

8.3 Persönliche Schutzausrüstung

8.3.1 allgemeine Schutz- und Hygienemaßnahmen: Berührung mit den Augen und der Haut vermeiden.
 Während der Arbeit nicht essen, trinken, rauchen.
 Auf Trockenheit achten

8.3.2 Atemschutz: In der Regel keine besonderen Schutzmaßnahmen erforderlich.
 In Ausnahmesituationen (z.B. unbeabsichtigte Stofffreisetzung)
 ist das Tragen von Atemschutz erforderlich.

8.3.3 Handschutz: nitrilbeschichtete Handschuhe

8.3.4 Augenschutz: Gestellbrille mit Seitenschutz
 Ist nicht nur das Auge, sondern auch das Gesicht gefährdet,
 ist zusätzlich ein Schutzschirm zu benutzen.

8.3.5 Körperschutz: Generell flammhemmend ausgerüstete Schutzkleidung.
 Bei der Arbeit mit größeren Mengen Natrium ist spezielle
 Schutzkleidung erforderlich; Herstellerliste auf Anfrage

9. Physikalische und chemische Eigenschaften

9.1 Erscheinungsbild

9.1.1 Form: fest

9.1.2 Farbe: metallisch grau

9.1.3 Geruch: geruchlos

9.2 Sicherheitsrelevante Daten

**9.2.1 Schmelzpunkt/
Schmelzbereich** 97,85 °C

9.2.2 Siedepunkt/Siedebereich 892 °C

9.2.3 Zündtemperatur 115 °C

9.2.4 Viskosität (100 °C) 0,68 mPa.s

9.2.5 Dichte (20 °C) 0,97 g/cm³

9.2.6 Löslichkeit in Wasser n. a. / heftige Zersetzung



10. Stabilität und Reaktivität

- 10.1 Zu vermeidende Bedingungen:** hohe Luftfeuchtigkeit, hohe Temperaturen
- 10.2 Zu vermeidende Stoffe:** Wasser, Oxidationsmittel, Luft, Alkohole, Halogene, Säuren
Schwermetallpulver
- 10.3 Gefährliche Zersetzungsprodukte:** mit Wasser heftige Reaktion unter Bildung von Wasserstoff und stark alkalisch ätzender Natronlauge;
Explosionsgefahr durch Bildung von Knallgas; reagiert heftig mit Halogenen, Halogenkohlenwasserstoffen und Oxidationsmitteln
- 10.4 Sonstige Angaben** In geschlossener und unbeschädigter Verpackung ist Natrium mehrere Jahre stabil

11. Toxikologische Angaben

Akute Toxizität:

Primäre Reizwirkung

an der Haut:

am Auge:

Sensibilisierung:

Zusätzliche toxikologische

Hinweise:

Ätzende Wirkung auf Haut und Schleimhaut

Starke Ätzwirkung

Keine sensibilisierende Wirkung bekannt

Bei Verschlucken starke Ätzwirkung des Mundraumes und Rachens sowie Gefahr der Perforation der Speiseröhre und des Magens.

Nach unserem derzeitigen Wissensstand ist die akute und chronische Toxizität dieses Stoffes nicht gänzlich bekannt. Keine Daten zur Klassifizierung dieses Stoffes hinsichtlich seiner Karzinogenität aus EPA, IARC, NTP, OSHA oder ACGIH verfügbar.

12. Angaben zur Ökologie

Allgemeine Hinweise: Wassergefährdungsklasse 1: schwach wassergefährdend

13. Hinweise zur Entsorgung

13.1 Entsorgung / Abfall (Produkt)

13.1.1 Große Natriummengen in einem Behälter mit inertem Lösemittel oder unter Inertgas (z. B. Stickstoff) sammeln.

13.1.2 Kleine Natriummengen vorsichtig in kleinen Portionen in niedrigsiedende Alkohole, z. B. Butanol (Überschuss) eintragen. Das entstandene Alkoholat durch langsame Wasserzugabe zerstören.

13.1.3 Entsorgungsart Verbrennungsanlage

13.1.4 Nachweispflicht ja

13.1.5 ungebrauchtes Produkt in unbeschädigter Verpackung zurück an den Hersteller/Lieferanten

13.2 Verpackungen

13.2.1 ungereinigte Verpackungen sorgfältig mit Isopropanol und anschließend mit Wasser waschen. Nicht in Gewässer oder in die Kanalisation gelangen lassen.



13.2.2 Restentleerte Verpackung: Hausmüll bzw. zu Recycling-Unternehmen

13.3 Sonstige Angaben Der sechsstellige Abfallschlüssel ist nach AVV branchen-, prozessart-, herkunfts- oder abfallartenspezifisch zuzuordnen.
 Entsorgen im Einklang mit Bundes-, Länder- und lokalen Vorschriften.

14. Angaben zum Transport

14.1 Landtransport ADR/RID/GGVSE:



ADR/RID-GGVS/E Klasse: 4.3 (W2) Stoffe, die in Berührung mit Wasser entzündbare Gase entwickeln
Kemler-Zahl: X423
UN-Nummer: 1428
Verpackungsgruppe: I
Gefahrzettel: 4.3
Bezeichnung d. Gutes: 1428 Natrium
Begrenzte Menge (LQ): LQ0
Beförderungskategorie: 1
Tunnelbeschränkungscode: B/E

14.2 Seeschifftransport IMDG/GGVSee:



IMDG/GGVSee-Klasse: 4.3
UN-Nummer: 1428
Lable 4.3
Verpackungsgruppe: I
Richtiger techn. Name: SODIUM

14.3 Lufttransport ICAO-TI und IATA-DGR :



ICAO/IATA-Klasse: 4.3
UN/ID-Nummer: 1428
Verpackungsgruppe: 4.3
Richtiger techn. Name: SODIUM

UN“Model Regulation“: UN1428, Natrium, 4.3,I

Dr. Bilger Umweltconsulting GmbH
 Gewerbepark Birkenhain 7a, 63579 Freigericht
 Sicherheitsdatenblatt gemäß Verordnung (EG)
 1907/2006 (Reach)
 erstellt am: 15.01.2009
 überarbeitet am: 12.05.2016



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Produkt: Natrium
 Version: 2.0 / DE

Druckdatum: 13.05.2016
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15. Rechtsvorschriften

15.1 Kennzeichnung nach EU-Richtlinien

15.1.1 Kennbuchstabe und

Gefahrenbezeichnung:



F; leicht entzündlich



C; ätzend

15.1.2 R-Sätze

R14/15: Reagiert heftig mit Wasser unter Bildung leichtentzündlicher Gase

15.1.3 S-Sätze

R34: Verursacht Verätzungen

S05: Unter Schutzgas oder Paraffinöl aufbewahren

S08: Behälter trocken halten

S43: Zum Löschen trockenen Sand oder Kochsalz verwenden - kein Wasser verwenden

S45: Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, das Etikett vorzeigen)

15.1.4 berufsgenossenschaftliche/ arbeitsmedizinische Vorschriften:

siehe Natrium-Merkblatt M019 der BG-Chemie

Nationale Vorschriften:

Hinweis zur Beschäftigungsbeschränkung:

Beschäftigungsbeschränkungen für Jugendliche beachten.
 Gebrauch nur durch techn. qualifizierte Personen.

Klassifizierung nach Betriebs-sicherheitsverordnung (BetrSichV):

Wassergefährdungsklasse 1 (Natronlauge aus Reaktion mit Wasser)

16. sonstige Angaben

Arbeitgeber sollen diese Information nur als Ergänzung zu deren eigenen Ergebnissen betrachten und unabhängig über deren Anwendbarkeit entscheiden, sodass die richtige Anwendung und somit die Gesundheit und Sicherheit der Angestellten gewährleistet ist. Diese Information beinhaltet keine gesetzliche Garantie und jeglicher Gebrauch des Produktes abweichend von diesem Sicherheitsdatenblatt, oder der Gebrauch in Kombination mit irgendeinem anderen Produkt oder Prozess obliegt allein der Verantwortung des Anwenders.

R14/15: Reagiert heftig mit Wasser unter Bildung leichtentzündlicher Gase

R34: Verursacht Verätzungen

Merkblatt M 019 Natrium der BG Chemie

Leitfaden Sicherheitsdatenblatt des VCI (Stand April 2008)

Chemikaliengesetz in der Fassung vom 20.06.2002

Gefahrstoffverordnung in der Fassung vom 23.12.2004

Die vorstehenden Angaben stützen sich auf den heutigen Stand unserer Kenntnisse und Erfahrungen und stellen keine Zusicherung von Eigenschaften dar.

Bestehende Gesetze und Bestimmungen sind vom Empfänger unseres Produktes in eigener Verantwortung zu beachten.

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name:

BINAL®

REACH registration No.: 01-2119484805-27-0002

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: Chem. production, metallurgy, additive for aluminium casting, production of Polyamid12, conditioning and etching of fluorinated plastics, dehalogenation and desulfuration of mineral oil, as a reducing agent for chemical syntheses

uses advised against: any non-industrial and/or scientific related application

1.3 Details of the supplier of the safety data sheet

Supplier Dr. Bilger Umweltconsulting GmbH
Gewerbepark Birkenhain 7a
D-63579 Freigericht

Telefon: +49-(0)6051-916695

e-Mail: info@bilgergmbh.de

1.4 Emergency telephone number

Emergency telephone: Tel.: +49-(0)6051-91669-51
This number is only active during normal opening hours.

Emergency support **Information Munich: +49/ (0)89 19240**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Regulation (EG) No. 1272/2008,	
Hazard class/- category	Hazard notes
in contact with water releases flammable gases which may ignite spontaneously (category 1)	H260
Causes severe skin burns (subcategory 1B) and severe eye damage (category 1)	H314

2.2 Label elements

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GHS02



GHS05

Signal word: DANGERHazard statements

H260 in contact with water releases flammable gases which may ignite spontaneously
 H314 Causes severe skin burns and eye damage.

Precautionary statements:

Precautionary statements Precaution

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Precautionary statements Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuous rinsing.
 P370+P378 In case of fire: Use metal fire powder for extinction. NO WATER.
 P308+P311 IF exposed or concerned: immediately call a POISON CENTER or doctor/physician.

Precautionary statements Storage:

P402+P404 Store in a dry place. Store in a closed container

Additional precautions

EUH014 reacts violently with water

2.3 Other hazards**Results of the PBT and vPvB assessment**

According to the results of its assessment, this substance is neither a PBT nor a vPvB substance.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients**3.1 Substance:** sodium, chemical element, metal (Na)

Formule Na
Mol. Weight: 22.98 g/mol
CAS-No.: 7440-23-5
EG-Nr.: 213-132-9
EINECS: 231-132-9
Index-No.: 011-001-00-0
Purity: >99.9 %

3.2 Mixture: not applicable:**SECTION 4: First aid measures**

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4.1 Description of First aid measures

General information: Remove contaminated clothing immediately. In case of health
Consult a doctor if health problems occur.

After inhalation: Move immediately to fresh air after inhalation of smoke produced by the
reactions. If unconscious, keep on the side and seek medical advice.
Remove to fresh air. Oxygen or artificial respiration if necessary. Call a
doctor immediately.

After skin contact: Remove metal with spatula and then rinse with plenty of water.
In case of contact with liquid sodium, remove clothing immediately,
Remove sodium with dry cloth, wash with plenty of water,
consult a doctor.

After eye contact: Immediately remove metal carefully. Remove contact lenses. Then rinse
thoroughly with
Rinse thoroughly with plenty of water until a doctor arrives.

After ingestion: Do NOT induce vomiting. Rinse out mouth. Give plenty of water to drink;
Consult a doctor immediately.

Notes for physician: Medical treatment according to alkali burn.
Show this safety data sheet to the doctor in attendance.

4.2 Most important symptoms and effects, both acute and delayed.

Symptoms: Ingestion may cause the following symptoms: Burning, Pain, Diarrhoea,
Vomiting, Decreased blood pressure, Respiratory problems, Symptoms
may be delayed.

Inhalation may cause the following symptoms: Irritating to respiratory
system, altered lung function or difficulty breathing.

Skin contact may cause the following symptoms: Burn

Eye contact may cause the following symptoms: Burn

Health effects from repeated exposure may include: Irritation of the
respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed.

Treatment: Delayed rupture or constriction of the gastrointestinal tract may occur
after ingestion. Close monitoring is recommended.

SECTION 5: Firefighting measures

5.1 Extinguishing Media

Suitable: Dry soda ash, Extinguishing powder class D, dry salt, dry concrete

Unsuitable: Water, CO₂, extinguishing agents class A, B, C, E and foam

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5.2 Special hazards arising from substance or mixture

Product releases hydrogen gas on contact with water.
Emits toxic fumes under fire conditions.

5.2 Advice for firefighters

Keep away from sources of ignition due to possible formation of hydrogen;
Do not inhale fumes under any circumstances; risk of chemical burns to mucous membranes,
Move people immediately to the side facing away from the wind
In case of fire, wear self-contained breathing apparatus against corrosive
oxide smoke. Wear full chemical protection suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

Use appropriate protective equipment (including the personal protective equipment mentioned in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing.
Contamination of skin, eyes and personal clothing.
Avoid contact with skin, eyes and clothing.

6.1.2 For emergency responders:

Use personal protective equipment (such as Nomex). Avoid dust formation.
Avoid breathing dust. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so.
Do not let product enter drains. Risk of explosions

6.3 Methods and material for containment and clean-up

Cover drains
Pick up mechanically and arrange disposal without creating dust.
Do not flush with water. Keep in suitable, closed containers for disposal.
Dispose of in suitable containers

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. incompatible materials: see section 10.
disposal information: see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe Handling**

Open and handle container with care. Store sodium under paraffin oil, nitrogen or argon.
Protect from moisture-
Always keep containers tightly closed. The work area must be well ventilated. Wash hands before breaks and at the end of work. Keep away from food and drink. Do not smoke while working.

7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and containers:

dry, no sprinkler system, floor level raised compared to surroundings

Information on storage together:

Corresponding to storage class 4.3 (substances that form flammable gases on contact with water).

Observe storage prohibitions. Do not store together with highly flammable liquids

Further information on storage conditions

Recommended storage temperature: 10 -30° C

7.3 Specific end use(s) no information available**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Additional advices for design of technical equipment:**

provide fire extinguisher metal class D

Risk of corrosion

Exposure limit values: Not applicable**8.2 Exposure controls****Personal Protection****General protection**

avoids any contact with eyes and skin.
No eating, drinking or smoking allowed
Keep workplace dry

Respiratory Protection:

Normally there is no respiration protection necessary.
In exceptional case (at example: accidental release) it is necessary to wear respiration protection.

Hand Protection:

nitrile covered gloves

Protective gloves must comply with the EC Directive 89/686/EEC and the related standards EN 374. Check tightness before use.

Recommended for example:

- Material: NBR (Nitril rubber)
 - Thickness: > 0.11 mm.
 - break through time: > 480 Minutes (Permeation level 6)
- Take rest periods to regenerate the skin. Preventive skin protection (protective creams/ointments) is recommended.

Eye Protection:

splash goggles, in exceptional cases it is necessary to wear a full length face shield

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Body protection: Generally flame-retardant protective clothing.
Special protective clothing is required when working with large quantities of sodium; manufacturer's list available on request

Limiting and monitoring exposure:

Prevent from entering the sewage system or surface and ground water.
groundwater. Explosion hazard.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- | | |
|---------------------------|------------------------|
| a) Physical state: | solid |
| b) Colour: | silvery |
| c) Odour: | odourless |
| d) Melting point | 97.8 °C |
| e) Boiling point | 892 °C |
| p) Density (20 °C) | 0,97 g/cm ³ |

9.2 Other information none

SECTION 10: Stability and reactivity

10.1 Reactivity see section 10.3

10.2 Chemical stability sensitive to moisture

10.3. Possibility of hazardous reactions

Explosion hazard and risk of ignition or formation of flammable gases or vapors with:

Water, alcohols, aluminium halides, ammonium compounds, metal salts, boron compounds, bromine, azides, halogenated hydrocarbons, organ. halogenides, chlorine, chlorates, chloroform, hydrogen chloride gas, chromium(VI) oxide, dichloromethane, ether, dimethylformamide, halogen oxides, ethanol, methanol, alkyl nitrates, nitrites, fluorine, halogens, hydrazines, hydrazine hydrate, hydroxylamine, iodine, halogen-halogen compounds, peroxides, activated carbon, carbon monoxide, copper compounds, metal oxides, organic nitro compounds, heavy metal salts, perchlorates, phosphorus halides, phosphorus oxides, silicon compounds, silver compounds, selenium, sulphur dioxide, carbon disulphide, hydrogen sulphide, sulphur, acid chlorides, oxygen, hydrochloric acid, nitric acid, mercury compounds, mercury, nitrogen dioxide

10.4 Conditions to avoid

Conditions to be avoided: High humidity, high temperature

10.5 Incompatible materials: see section 10.3

10.6. Hazardous decomposition products: see section 5

SECTION 11: Toxicological information

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11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) acute toxicity;	Mucous membrane irritation, cough, shortness of breath, Possible consequences: Damage to the respiratory tract
acute oral toxicity:	If swallowed, severe causticity of the mouth and throat and risk of perforation of the oesophagus and stomach.
b) skin corrosion/irritation;	Corrosive effect on skin and mucous membranes
c) serious eye damage/irritation;	Strong corrosive effect. Causes severe eye damage
d) respiratory or skin sensitisation;	no information available
e) germ cell mutagenicity;	no information available
f) carcinogenicity;	no information available
g) reproductive toxicity;	no information available
h) STOT-single exposure;	no information available
i) STOT-repeated exposure;	no information available
j) aspiration hazard:	no information available

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**Contains no endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.**11.2.2 Other information**

Decomposition of the substance with the moisture of the tissues. The usual precautionary measures for handling chemicals must be observed.

SECTION 12: Ecological information

12.1 Toxicity:	No information available.
12.2 Persistence and degradability:	No information available.
12.3 Bioaccumulative potential:	No information available.
12.4 Mobility in soil:	No information available.
12.5 Results of PBT and PBT/vPvB:	Not applicable for inorganic substances.
12.6 Endocrine disrupting properties	Contains no endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.
12.7 Other adverse effects	decomposition product reacting with water: Sodium hydroxide Entry into the environment must be avoided.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product	Call the supplier for technical advice in the individual case. Pick up the material and transfer in dry drum, close tightly and store in UN-x-coded transport drum. Sodium disposal must not be attempted by inexperienced people. Transport to incineration plant according to ADR-regulation No. 4.3; I
Large quantities	collect in steel drum and cover with dry oil.
Small quantities	pick up in a small steel bin, let react with Isopropanol, then add water in small quantities

Packaging

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Steel Packaging	clean with isopropanol carefully if necessary and rinse with water before disposal. Do not drain into municipal water system.
Emptied packaging:	Household waste or to recycling companies
Other information	the six-digit waste code is used in accordance with AVV industry-, process-type-, origin- and material-specific, Dispose of in accordance with federal, state and local regulations. Observe Waste Directive 2008/98/EC.

SECTION 14: Transport information**14.1 UN number or ID number:** UN1428**14.2 UN proper shipping name:**

ADR/RID/ADN

NATRIUM

IMDG-Code

SODIUM

ICAO-TI

Sodium

14.3 Transport hazard class(es): 4.3**14.4 Packing group:** I**14.5 Environmental hazards:** Not hazardous to the environment according to dangerous goods regulations**14.6 Special precautions for user****14.7 Maritime transport in bulk according to IMO instruments**

Not transported as bulk cargo.

Rail and Road ADR/RID/GGVSE:

ADR/RID-GGVSE class: 4.3 (W2) Material that emits flammable gases on contact with water.

Kemler-Zahl: X423

UN-NO: 1428

Packaging Group: I

Lable: 4.3

Identification: 1428 Sodium

Limited quantity (LQ): LQ0

Transport category: 1

Tunnel restriction code: B/E

**Sea IMDG/GGVSea:**

IMDG/GGVSea-class: 4.3

UN-NO: 1428

Lable: 4.3

Packaging Group: I

Limited quantity (LQ): LQ0

Identification: SODIUM

EMS: F-G S-N

Air ICAO-TI und IATA-DGR:



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ICAO/IATA-class: 4.3
UN/ID-NO: 1428
Lable 4.3
Packaging Group: I
Identification: SODIUM
IATA (Passenger): Transport forbidden
IATA (cargo plane): Transport accepted
UN "Model Regulation ": UN1428, Sodium, 4.3, I



SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Seveso Directive

2012/18/EU (SevesoIII)				
No.	Hazardous substance/hazard categories	Quantity threshold (in tonnes) for use in factory lower and upper classes		Note
01	other hazards (EUH014)	100	500	58)
02	other hazards (water react., cat. 1)	100	500	59)

Note

58) Substances or mixtures with the hazard statement EUH014

59) Substances and mixtures which, in contact with water, emit flammable gases, hazard category 1

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at Work

Regulation (EC) No 1006/2009 on substance that deplete the ozone layer:

not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Dir. 79/117/EEC:

not regulated

Substances of very high concern (SVHC):

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (EACH), Article 57 above respective regulatory concentration limit of $\geq 0.1\%$ (w/w).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product for quantities below 10 tons or more per year per registrant.

SECTION 16: Other information

a) Indication of where changes have been made to the previous version

Kap. 2.3 new design

Kap. 5.4 and 5.3 combined under 5.3

Kap. 5.5 deleted

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Kap.7.2 title adjusted and text revised
Kap. 8.1 und 8.2 title adjusted and text revised
Kap. 9 adjusted to legislation 2020/8978/EU
Kap. 10.5 and 10.6 new
Kap. 11.2 Text revised
Kap. 12.6 and 12.7 revised
Section 14 Layout new
Kap. 15.1 Merkblatt M019 Natrium new in the list
Kap. 16b Legend to abbreviations inserted

b) Legend to abbreviations

ADR Accord relatif au transport international des marchandises dangereuses par route
(Convention concerning the International Carriage of Dangerous Goods by Road)
IATA International Air Transport Association

IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA)

ICAO International Civil Aviation Organization

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Règlement concernant le transport International ferroviaire des marchandises
Dangereuses (Regulations concerning the International Carriage of Dangerous Goods by
Rail)

PBT Persistent, Bioaccumulative and toxic

vPvB Very Persistent and very Bioaccumulative

c) Literature

Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances
and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

e) Full text of H-statements referred to under sections 2 and 3.**Labelling**

Hazard pictograms



Signal word Danger

Hazard statements

H260 in contact with water releases flammable gases which may ignite spontaneously

H314 Causes severe skin burns and eye damage

EUH014 Reacts violently with water

Precautionary statements

MATERIAL SAFETY DATA SHEET

according (EG) 1907/2006 (Reach), revised with 2020/878/EU

date of issue: 15.01.2009

product: BINAL

revised 02:04:2024

version: 2.0 /ENG supersedes VERSION 1:0/EN

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Dr. Bilger Umweltconsulting GmbH

Prevention

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuous rinsing.
 P370+P378 In case of fire: Use metal fire powder for extinction. NO WATER.
 P308+P311 IF exposed or concerned: immediately call a POISON CENTER or doctor/physician.

Storage

P402+P404 Store in a dry place. Store in a closed container

f) Training advice

Provide adequate information, instruction and training operators.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

This information is taken from sources based upon data believed to be reliable.

However, Dr. Bilger Umweltconsulting GmbH makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.

Local laws and regulations have to be considered by the customer upon own responsibility.

Dr. Bilger Umweltconsulting GmbH
 Gewerbepark Birkenhain 7a, 63579 Freigericht
 Sicherheitsdatenblatt gemäß Verordnung (EG)
 1907/2006 (Reach)
 erstellt am: 15.01.2009
 überarbeitet am: 12.05.2016



Dr. Bilger Umweltconsulting GmbH

Druckdatum: 13.05.2016
 Seite 1 von 8

SICHERHEITSDATENBLATT

Gemäß Verordnung (EG) 1907/2006 (REACH)

1. Stoff-, Zubereitungs- und Firmenbezeichnung

1.1 Bezeichnung des Stoffes/der Zubereitung

Handelsname:

Natrium

REACH Registrierungsnummer: Vorregistrierungsnummer 05-2114257078-45-0000

1.2 Verwendung des Stoffes/der Zubereitung

- 1.2.1 Identifizierte Verwendungen: Chemische Produktion, Metallurgie, Bleiraffination, Veredelungsmittel für Aluminiumguss, Herstellung von Polyamid12, Bearbeitung oder Ätzen von fluorierten Kunststoffen, Dehalogenierung und Entschwefelung von Mineralöl, als Reduktionsmittel in der chemischen Synthese

Unter Einhaltung der in der Anlage zu diesem SDB beschriebenen Bedingungen.

1.3 Bezeichnung des Unternehmens

Lieferant /Hersteller/	Dr. Bilger Umweltconsulting GmbH
Importeur/nachgeschalteter	Gewerbepark Birkenhain 7a
Anwender/Händler	DE-63579 Freigericht
	Telefon: +49-(0)6051-9166951

e-Mail (fachkundige Person) info@bilgergmbh.de

Kontaktstelle für Information Abt. F+E : Telefon: +49-(0)6051-91669-54

Nationaler Ansprechpartner Abt. F+E : Telefon: +49-(0)6051-91669-54

- 1.4 **Notfallauskunft/:** Tel.: +49-(0)6051-91669-51
Notfallnummer Diese Nummer ist nur zu Bürozeiten besetzt.

2. Mögliche Gefahren

2.1 Einstufung:

Verordnung (EG) Nr. 1272/2008,	Anhang VII
Gefahrenklasse/- kategorie	Gefahrenhinweis
Wassergefährdungsklasse 1	H260
Skin Corr. 1B	H314

67/548/EWG oder 1999/45/EG	
Gefährlichkeitsmerkmal	R-Sätze
Leichtentzündlich (F)	R 14/15
Ätzend (C)	R 34



2.2 Kennzeichnungselemente



Flamme



Ätzwirkung

Gefahr

H260

In Berührung mit Wasser entstehen entzündbare Gase, die sich spontan entzünden können.

H314

Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

EUH014

Reagiert heftig mit Wasser

P223

Kontakt mit Wasser wegen heftiger Reaktion und möglichem Aufflammen unbedingt verhindern.

P280

Schutzhandschuhe / Schutzkleidung / Augenschutz / Gesichtsschutz tragen.

P303 + P361 + P353

BEI KONTAKT MIT DER HAUT (oder dem Haar):
 Alle beschmutzten, getränkten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen/duschen.

P305 + P351 + P338

BEI KONTAKT MIT DEN AUGEN:
 Einige Minuten lang behutsam mit Wasser spülen. Vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.

P370 + P378

Bei Brand: Metallbrandpulver Klasse D zum Löschen verwenden.

P402 + P404

In einem geschlossenen Behälter an einem trockenen Ort aufbewahren

2.3 Sonstige Gefahren

Keine Daten vorhanden

3. Zusammensetzung / Angaben zu Bestandteilen

3.1 Angaben zum Stoff: Natrium, chemisches Element, Metall

CAS-Nr.: 7440-23-5

EG-Nr.: 213-132-9

EINECS: 231-132-9

Index-Nr.: 011-001-00-0

VorregistrierungsNr.: 05-2114257078-45-0000

Reach RegistrierungsNr.: 01-2119484805-27-0001

Reinheit: >99.9 %

3.2 Zusätzliche Hinweise:

Die Übergangsfrist gemäß REACH-Verordnung, Artikel 23, ist noch nicht abgelaufen.

4. Erste-Hilfe-Maßnahmen

4.1 Beschreibung der Erste-Hilfe-Maßnahmen

Allgemeine Hinweise: Beschmutzte Kleidung sofort ausziehen. Bei Auftreten von Gesundheitsstörungen Arzt hinzuziehen.

nach Einatmen: Nach Einatmen des bei den Reaktionen entstehenden Rauchs sofort an die frische Luft gehen. Bei Bewusstlosigkeit stabile Seitenlage anwenden



und ärztlichen Rat einholen. An die frische Luft bringen. Sauerstoff oder, falls erforderlich, künstliche Beatmung. Sofort Arzt hinzuziehen.

- nach Hautkontakt:** Metall mit Spatel entfernen und danach mit viel Wasser spülen bei Kontakt mit flüssigem Natrium sofort Kleidung ausziehen, Natrium mit trockenem Tuch entfernen, mit viel Wasser waschen, Arzt aufsuchen.
- nach Augenkontakt:** Metall sofort sorgfältig entfernen. Kontaktlinsen entfernen. Dann bei geöffnetem Lidspalt gründlich mit viel Wasser spülen, bis zum Eintreffen des Arztes weiterspülen.
- nach Verschlucken:** KEIN Erbrechen erzwingen. Mund ausspülen. Viel Wasser trinken lassen; sofort Arzt konsultieren.
- Hinweise für Arzt:** Behandlung wie Laugenverätzung. Dem Arzt Sicherheitsdatenblatt vorlegen.

4.2 Wichtigste akute oder verzögert auftretende Symptome und Wirkungen

- Symptome:** Verschlucken kann folgende Symptome hervorrufen: Verbrennung, Schmerz, Durchfall, Erbrechen, Erniedrigter Blutdruck, Atemprobleme, Symptome können verzögert auftreten.
- Einatmen kann folgende Symptome hervorrufen: Reizt die Atmungsorgane, veränderte Lungenfunktion oder Atemschwierigkeiten.
- Hautkontakt kann folgende Symptome hervorrufen: Verbrennung
- Augenkontakt kann folgende Symptome hervorrufen: Verbrennung
- Zu den Gesundheitsschäden durch wiederholte Exposition können gehören: Reizung der Atmungsorgane.

4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

- Behandlung:** Nach Verschlucken kann ein verspätet auftretender Durchbruch oder eine Verengung des Magen-Darm-Trakts eintreten. Eine genaue Überwachung wird empfohlen.

5. Maßnahmen zur Brandbekämpfung

- 5.1 geeignete Löschmittel:** Metallbrandpulver Klasse D, trockenes Kochsalz, Sand, Zement

- 5.2 Aus Sicherheitsgründen ungeeignete Löschmittel:**

Wasser, CO₂, Löschmittel der Brandklassen A, B, C und E

- 5.3 Besondere Gefährdung durch den Stoff oder das Produkt selbst, seine Verbrennungsprodukte oder entstehende Gase:**

von Zündquellen fern halten wegen möglicher Bildung von Wasserstoff; Verätzung der Schleimhäute, Rauch keinesfalls einatmen; Personen sofort auf windabgewandte Seite bringen

- 5.4 besondere Schutzausrüstung bei der Brandbekämpfung:** Im Brandfall umluftunabhängigen Atemschutz gegen ätzenden Oxidrauch



5.5 Zusätzliche Hinweise:

Brandklasse: D

6. Maßnahmen bei unbeabsichtigter Freisetzung

6.1 personenbezogene Vorsichtsmaßnahmen: Entfernen von Zündquellen. Gefährdeten Bereich räumen, betroffene Umgebung warnen. Zur Beseitigung des gefährlichen Zustandes darf der Gefahrenbereich nur mit geeigneten Schutzmaßnahmen betreten werden. Feuchtigkeit fernhalten. Atem-, Augen-, Hand- und Körperschutz tragen. Verhindern von Haut- und Augenkontakt

6.2 Umweltschutzmaßnahmen: nicht in die Kanalisation gelangen lassen; Explosionsgefahr!

6.3 Verfahren zur Reinigung/ Aufnahme: Nach Verschütten und Auslaufen kleinerer Mengen vorsichtig trocken aufnehmen und in geeigneten, dicht schließenden X-zugelassenen Behältern sammeln; anschließend mit trockenem Öl abdecken

6.4 Zusätzliche Hinweise: Zündquellen fernhalten, nicht rauchen, offene Flammen vermeiden

7. Handhabung und Lagerung

7.1 Handhabung

7.1.1 Hinweise zum sicheren Umgang Natrium unter Paraffinöl, Stickstoff oder Argon verpackt lagern vor Nässe schützen, Gebinde stets dicht verschlossen halten. Der Arbeitsbereich muss trocken und gut belüftet sein. Personal muss feuerfeste Kleidung, Gestellbrille mit Seitenschutz und nitrilbeschichtete Handschuhe tragen. Mindeststandards gemäß TRGS 500 einhalten. Bei der Gestaltung des Arbeitsverfahrens sind die Modelllösungen der Schutzleitfäden der 100er und 200er-Reihe zu berücksichtigen. (http://www.baua.de/nn_5846/de/Themen-von-A-Z/Gefahrstoffe/EMKG/Schutzleitfaeden)

7.1.1 Hinweise zum Brand- und Explosionsschutz: Ausschluss jeglicher Feuchtigkeit, da mit Wasser heftige Reaktion unter Bildung explosionsfähiger, selbstentzündlicher Wasserstoff-Luft-Gemische (Knallgas). Trocken halten.

7.2 Lagerung

7.2.1 Anforderungen an Lagerräume und Behälter: trocken, keine Sprinkleranlage, Bodenniveau gegenüber Umgebung erhöht
 Anforderung an die Lagerbeschaffenheit gemäß WGK: 1

7.2.2 Zusammenlagerungshinweise: Entsprechend Lagerklasse: siehe Punkt 7.2.4
 nicht mit leicht brennbaren Flüssigkeiten zusammen lagern

7.2.3 Weitere Angaben zu den Lagerbedingungen Empfohlene Lagertemperatur: Lagerung bei Raumtemperatur

7.2.4 Lagerklasse (VCI Konzept) 4.3 Stoffe, die bei Berührung mit Wasser entzündliche Gase bilden.



8. Expositionsgrenzen und persönliche Schutzausrüstung

8.1 Zusätzliche Hinweise zur Ge- Feuerlöscheinrichtungen sind bereitzustellen
staltung techn. Anlagen: Korrosionsgefahr

8.2 Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:

Entfällt

8.3 Persönliche Schutzausrüstung

8.3.1 allgemeine Schutz- und Hygienemaßnahmen: Berührung mit den Augen und der Haut vermeiden.
 Während der Arbeit nicht essen, trinken, rauchen.
 Auf Trockenheit achten

8.3.2 Atemschutz: In der Regel keine besonderen Schutzmaßnahmen erforderlich.
 In Ausnahmesituationen (z.B. unbeabsichtigte Stofffreisetzung)
 ist das Tragen von Atemschutz erforderlich.

8.3.3 Handschutz: nitrilbeschichtete Handschuhe

8.3.4 Augenschutz: Gestellbrille mit Seitenschutz
 Ist nicht nur das Auge, sondern auch das Gesicht gefährdet,
 ist zusätzlich ein Schutzschirm zu benutzen.

8.3.5 Körperschutz: Generell flammhemmend ausgerüstete Schutzkleidung.
 Bei der Arbeit mit größeren Mengen Natrium ist spezielle
 Schutzkleidung erforderlich; Herstellerliste auf Anfrage

9. Physikalische und chemische Eigenschaften

9.1 Erscheinungsbild

9.1.1 Form: fest

9.1.2 Farbe: metallisch grau

9.1.3 Geruch: geruchlos

9.2 Sicherheitsrelevante Daten

**9.2.1 Schmelzpunkt/
Schmelzbereich** 97,85 °C

9.2.2 Siedepunkt/Siedebereich 892 °C

9.2.3 Zündtemperatur 115 °C

9.2.4 Viskosität (100 °C) 0,68 mPa.s

9.2.5 Dichte (20 °C) 0,97 g/cm³

9.2.6 Löslichkeit in Wasser n. a. / heftige Zersetzung



10. Stabilität und Reaktivität

- 10.1 Zu vermeidende Bedingungen:** hohe Luftfeuchtigkeit, hohe Temperaturen
- 10.2 Zu vermeidende Stoffe:** Wasser, Oxidationsmittel, Luft, Alkohole, Halogene, Säuren
Schwermetallpulver
- 10.3 Gefährliche Zersetzungsprodukte:** mit Wasser heftige Reaktion unter Bildung von Wasserstoff und stark alkalisch ätzender Natronlauge;
Explosionsgefahr durch Bildung von Knallgas; reagiert heftig mit Halogenen, Halogenkohlenwasserstoffen und Oxidationsmitteln
- 10.4 Sonstige Angaben** In geschlossener und unbeschädigter Verpackung ist Natrium mehrere Jahre stabil

11. Toxikologische Angaben

Akute Toxizität:

Primäre Reizwirkung

an der Haut:

am Auge:

Sensibilisierung:

Zusätzliche toxikologische

Hinweise:

Ätzende Wirkung auf Haut und Schleimhaut

Starke Ätzwirkung

Keine sensibilisierende Wirkung bekannt

Bei Verschlucken starke Ätzwirkung des Mundraumes und Rachens sowie Gefahr der Perforation der Speiseröhre und des Magens.

Nach unserem derzeitigen Wissensstand ist die akute und chronische Toxizität dieses Stoffes nicht gänzlich bekannt. Keine Daten zur Klassifizierung dieses Stoffes hinsichtlich seiner Karzinogenität aus EPA, IARC, NTP, OSHA oder ACGIH verfügbar.

12. Angaben zur Ökologie

Allgemeine Hinweise:

Wassergefährdungsklasse 1: schwach wassergefährdend

13. Hinweise zur Entsorgung

13.1 Entsorgung / Abfall (Produkt)

13.1.1 Große Natriummengen

in einem Behälter mit inertem Lösemittel oder unter Inertgas (z. B. Stickstoff) sammeln.

13.1.2 Kleine Natriummengen

vorsichtig in kleinen Portionen in niedrigsiedende Alkohole, z. B. Butanol (Überschuss) eintragen. Das entstandene Alkoholat durch langsame Wasserzugabe zerstören.

13.1.3 Entsorgungsart

Verbrennungsanlage

13.1.4 Nachweispflicht

ja

13.1.5 ungebrauchtes Produkt

in unbeschädigter Verpackung zurück an den Hersteller/Lieferanten

13.2 Verpackungen

13.2.1 ungereinigte Verpackungen

sorgfältig mit Isopropanol und anschließend mit Wasser waschen. Nicht in Gewässer oder in die Kanalisation gelangen lassen.



13.2.2 Restentleerte Verpackung: Hausmüll bzw. zu Recycling-Unternehmen

13.3 Sonstige Angaben Der sechsstellige Abfallschlüssel ist nach AVV branchen-, prozessart-, herkunfts- oder abfallartenspezifisch zuzuordnen.
 Entsorgen im Einklang mit Bundes-, Länder- und lokalen Vorschriften.

14. Angaben zum Transport

14.1 Landtransport ADR/RID/GGVSE:



ADR/RID-GGVS/E Klasse: 4.3 (W2) Stoffe, die in Berührung mit Wasser entzündbare Gase entwickeln
Kemler-Zahl: X423
UN-Nummer: 1428
Verpackungsgruppe: I
Gefahrzettel: 4.3
Bezeichnung d. Gutes: 1428 Natrium
Begrenzte Menge (LQ): LQ0
Beförderungskategorie: 1
Tunnelbeschränkungscode: B/E

14.2 Seeschifftransport IMDG/GGVSee:



IMDG/GGVSee-Klasse: 4.3
UN-Nummer: 1428
Lable 4.3
Verpackungsgruppe: I
Richtiger techn. Name: SODIUM

14.3 Lufttransport ICAO-TI und IATA-DGR :



ICAO/IATA-Klasse: 4.3
UN/ID-Nummer: 1428
Verpackungsgruppe: 4.3
Richtiger techn. Name: SODIUM

UN“Model Regulation“: UN1428, Natrium, 4.3,I

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Dr. Bilger Umweltconsulting GmbH

Produkt: Natrium
 Version: 2.0 / DE

Druckdatum: 13.05.2016
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15. Rechtsvorschriften

15.1 Kennzeichnung nach EU-Richtlinien

15.1.1 Kennbuchstabe und

Gefahrenbezeichnung:



F; leicht entzündlich



C; ätzend

15.1.2 R-Sätze

R14/15: Reagiert heftig mit Wasser unter Bildung leichtentzündlicher Gase

15.1.3 S-Sätze

R34: Verursacht Verätzungen

S05: Unter Schutzgas oder Paraffinöl aufbewahren

S08: Behälter trocken halten

S43: Zum Löschen trockenen Sand oder Kochsalz verwenden - kein Wasser verwenden

S45: Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, das Etikett vorzeigen)

15.1.4 berufsgenossenschaftliche/ arbeitsmedizinische Vorschriften:

siehe Natrium-Merkblatt M019 der BG-Chemie

Nationale Vorschriften:

Hinweis zur Beschäftigungsbeschränkung:

Beschäftigungsbeschränkungen für Jugendliche beachten.
 Gebrauch nur durch techn. qualifizierte Personen.

Klassifizierung nach Betriebs-sicherheitsverordnung (BetrSichV):

Wassergefährdungsklasse 1 (Natronlauge aus Reaktion mit Wasser)

16. sonstige Angaben

Arbeitgeber sollen diese Information nur als Ergänzung zu deren eigenen Ergebnissen betrachten und unabhängig über deren Anwendbarkeit entscheiden, sodass die richtige Anwendung und somit die Gesundheit und Sicherheit der Angestellten gewährleistet ist. Diese Information beinhaltet keine gesetzliche Garantie und jeglicher Gebrauch des Produktes abweichend von diesem Sicherheitsdatenblatt, oder der Gebrauch in Kombination mit irgendeinem anderen Produkt oder Prozess obliegt allein der Verantwortung des Anwenders.

R14/15: Reagiert heftig mit Wasser unter Bildung leichtentzündlicher Gase

R34: Verursacht Verätzungen

Merkblatt M 019 Natrium der BG Chemie

Leitfaden Sicherheitsdatenblatt des VCI (Stand April 2008)

Chemikaliengesetz in der Fassung vom 20.06.2002

Gefahrstoffverordnung in der Fassung vom 23.12.2004

Die vorstehenden Angaben stützen sich auf den heutigen Stand unserer Kenntnisse und Erfahrungen und stellen keine Zusicherung von Eigenschaften dar.

Bestehende Gesetze und Bestimmungen sind vom Empfänger unseres Produktes in eigener Verantwortung zu beachten.

Shipper
DR. BILGER UMWELTCONSULTING GMBH
GEWERBEPARK BIRKENHAIN 7A
63579 FREIGERICH
GERMANY

B/L No.
VER284202



SACO SHIPPING LINE LTD

Consigned to order of
FEDERAL MOGUL POWERTRAIN
FORJAS Y MAQUINAS S DE RL DE CV
JESUS RIVERA FRANCO 402 CD.
INDUSTRIAL
AGUASCALIENTES AGS 20290
MEXICO RFC: FMA800610ES5

Notify Party and address
FORJAS Y MAQUINAS S DE RL DE CV
Y/O UPS SCS MEXICO S.A. DE C.V.
DEL. BENITO JUAREZ
CIUDAD DE MEXICO, C.P. 030230
TAX ID: UPS891122HV8
UPSOCEANMEXICO@UPS.COM

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528201

Copy

		Place of receipt BREMEN CFS				
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN				
Port of discharge VERACRUZ		Place of delivery VERACRUZ CFS	Freight payable HAMBURG	Number of original Bills of Lading 0/ZERO		
Marks and Nos.	Quantity of Goods		Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
FEDERAL MOGUL POW ERTRAIN FORJAS Y MAQUINAS S DE RL DE CV JESUS RIVERA FRAN CO 402 CD. INDUSTRIAL AGUASC ALIENTES AGS 2029 0, MEXICO STOWED INTO CONTAINER NO.: MRSU3859357	3	PALLETS	300KG BINAL (NATRIUM IN TIN FOIL) UN 1428, NATRIUM, 4.3, IL (B/E) ORDER:26.5.9-AS HS-CODE:28051100		390,000	1,584
				SEAL : B052457		

SEAL : B052457

TOTAL 3 PALLETS 390,000 KGS 1,584 CBM

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA, C.P. 06700 MEXICO D.F.
TEL:005255146915, FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
HAMBURG 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper
EVONIK OPERATIONS GMBH
GOLDSCHMIDTSTRASSE 100
45127 ESSEN, GERMANY
STEFAN.WENIGER@EVONIK.COM
TEL: +49 201-173-2608
VAT# DE114138241

B/L No.
VER284203



SACO SHIPPING LINE LTD

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528202

Copy

Consigned to order of
LESCHACO MEXICANA SA DE CV.
BLVD. MANUEL AVILA CAMACHO
NO. 88 PISO 5 COL.LOMAS DE CHAPULTEPEC
CP.11000,CIUDAD DE MEXICO, MEXICO
RFC: LME980116R15
CONTACT: ELIZABETH LUNA
E-MAIL: ELIZABETH.LUNA@LESCHACO.COM

Notify Party and address
LESCHACO MEXICANA SA DE CV.
BLVD. MANUEL AVILA CAMACHO
NO. 88 PISO 5 COL.LOMAS DE CHAPULTEPEC
CP.11000,CIUDAD DE MEXICO, MEXICO
RFC: LME980116R15
CONTACT: ELIZABETH LUNA
E-MAIL: ELIZABETH.LUNA@LESCHACO.COM

		Place of receipt BREMEN CFS	
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO
Marks and Nos. EVONIK INDUSTRIES DE MEXICO P.O. 46511462 TEGOSOFT CR MB EVONIK ORDER NO. 3012495883 VERACRUZ / MEXICO STOWED INTO CONTAINER NO.: MRSU3859357	Quantity of Goods 1 PALLET	Description of Goods TEGOSOFT CR MB HS-CODE: 291819 6 DRUM	Said to contain Gross weight, kg. 164,100 Measurement, m ³ 0,682

SEAL : B052457

TOTAL **1 PALLET** **164,100 KGS** **0,682 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper
SCAN GLOBAL LOGISTICS GMBH
VIOLENSTRASSE 27
28195 BREMEN

B/L No.
VER284313



SACO SHIPPING LINE LTD

Consigned to order of

SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

Notify Party and address

SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

SACO SHIPPING LINE LIMITED

44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528203

Copy

		Place of receipt BREMEN CFS	
Ocean vessel GSL MARIA		Port of loading HAMBURG	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS		Freight payable VERACRUZ
		Number of original Bills of Lading 0/ZERO	
Marks and Nos. SEG AUTOMOTVIE MEXICO 454391 454392 454463	Quantity of Goods 6 PALLETS	Description of Goods RING GEAR, MOTOR BEARING INTERMEDIATE BEARING HS: 84879090 INVOICES: 518767 518769 518770	Said to contain Gross weight, kg. 674,148 Measurement, m ³ 5,587

STOWED INTO CONTAINER NO.: MRSU3859357

SEAL : B052457

TOTAL **6 PALLETS** **674,148 KGS** **5,587 CBM**

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
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One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Shipper
SCAN GLOBAL LOGISTICS GMBH
VIOLENSTRASSE 27
28195 BREMEN

B/L No.
VER284348



SACO SHIPPING LINE LTD

Consigned to order of

SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

Notify Party and address

SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

SACO SHIPPING LINE LIMITED

44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528204

Copy

		Place of receipt HAMBURG CFS				
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN				
Port of discharge VERACRUZ		Place of delivery VERACRUZ CFS	Freight payable VERACRUZ	Number of original Bills of Lading 0/ZERO		
Marks and Nos.		Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m³
SEG AUTOMOTVIE		12	PACKAGES	INTERMEDIATE BEARING,	1452,816	11,290
MEXICO				MOTOR BEARING		
00454555				HS: 84879090		
00454556				INVOICES:		
00454557				518793		
00454558				518794		
				518795		
				518796		

STOWED INTO CONTAINER NO.: MRSU3859357

SEAL : B052457

TOTAL **12 PACKAGES** **1452,816 KGS** **11,290 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Shipper
NGL NAVIGATOR GLOBAL LOGISTICS GMBH
FELIX-WANKEL-STRASSE 3
STUHR NI 28816 GERMANY
EORI+DE6702740

B/L No.
VER284369



SACO SHIPPING LINE LTD

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528205

Copy

Consigned to order of
NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZAVALA 1306 SANTA CRUZ
BUENAVISTA
PUEBLA PUE 72150 MEXICO
+522225036510 RFC+NNG201012KD4
SEA@NGL-MEXICO.COM

Notify Party and address
NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZAVALA 1306 SANTA CRUZ
BUENAVISTA
PUEBLA PUE 72150 MEXICO
+522225036510 RFC+NNG201012KD4
SEA@NGL-MEXICO.COM

		Place of receipt BREMEN CFS	
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN, GERMANY	
Port of discharge VERACRUZ, MEXICO	Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO
Marks and Nos. TUNKERS DE MEXICO PKL 358366	Quantity of Goods 1 PALLET	Description of Goods CLAMPING SYSTEMS HS-CODE: 392690,730451, 731815, 761090 **HSCODE: 392690**	Said to contain Gross weight, kg. 297,000 Measurement, m ³ 0,989

STOWED INTO CONTAINER NO.: MRSU3859357

SEAL : B052457

TOTAL **1 PALLET** **297,000 KGS** **0,989 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER
nach § 6 GGVSee (IMO-ERKLÄRUNG)
TRANSPORT DOCUMENT FOR DANGEROUS GOODS
(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4, MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4, MARPOL 73/78, Annex III, regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name & Address) Shipper (Name & Address) Alexander Binzel Schweißtechnik GmbH & Co. KG Kiesacker 35418 Buseck, FED. REPUBLIC OF GERMANY		Buchungsnummer(n) Reference number(s) 11A14175740 - page 1/2		
Empfänger Consignee BINZEL, S.A. DE C.V. M. de Tepezalá 109 - P.I.V.A. Valle de Aguascalientes San Fco. de los Romo, Ags 20358 MEXICO R.F.C.: BSC 980824 R84.MEXICO		Beförderer Carrier GROUP 7 AG International Logistics Otto-Lilienthal-Str. 29 28199 Bremen		
CONTAINER/Fahrzeug-PACKERTIFERAT CONTAINER/VEHICLE PACKING CERTIFICATE ERKLÄRUNG It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1 DECLARATION It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1 AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES				
Schiffsnamen und Nummer der Reise Ship's name and voyage No.		Unterschrift für den Packier Signature on behalf of packer		
Ladestellen Port of discharge		(Frei für Text, Anweisungen und sonstige Angaben) Reserved for text, instructions or other matter Emergency Contact No.: Mr. Hansmann +49 176 10859177 Alexander Binzel Schweißtechnik GmbH & Co. KG		
UN-Mr. Proper shipping name UN-No. (Former technical name)*	Klassifizierung IMO Class Subsidiary Class	Verpackungsgruppe Packaging group	Identifizierung der Versandstücke Identification of the unit Name, identification number, marks & Nos., if applicable, identification or registration number of the unit	Anzahl und Verp.-Art No. and kind of packages
UN1805 LIMITED QUANTITY	8	III	77366739	1 canister 4H2 11 each
Bruttoverpackungsmenge (Volumen/Klasse) Gross quantity (volume/mass) Nettoverpackungsmenge (Volumen/Klasse) Net quantity (volume/mass) Net explosive mass ***	Marken-/Hersteller Unit label (name) Eins-Mo. Eigenschaften / Properties Flammpunkt / Flashpoint MASSIVE POLYURTHAN Korrosiv- und Nottemperatur Corrosive and emergency temperature	Güter angeliefert als: Goods delivered as: ☐ Stückgut / Breakbulk cargo ☐ Ladungseinheiten (Unit Loads) ☐ Unitized cargo ☐ Bulkverpackungen / Bulk packages Art der Einheit (Container, Anhänger, Tank, Fahrzeug usw.) Type of unit (Container, trailer, tank, vehicle etc.) ☐ offen ☐ geschlossen Zusätzliche Anmerkungen / Remarks (Diese Spalte kann bis auf die Übersicht eingegeben werden, in diesem Fall ist die Überschrift zu ignorieren) (This column may be left empty apart from the heading, in which case insert appropriate description)		
11,0 kg gross / 1,0 kg net		F-A-S-B		
ZUSÄTZLICHE ANGABEN ADDITIONAL INFORMATION In certain circumstances special information/certificates are required, see IMDG-Code, chapter 5.4 (See Backside)				
BEGLEITUNG DES VERSENDER: Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory i.A. Leonie Zakssek				
Ort und Datum Place and date Buseck, 15.05.2026				
Unterschrift für den Versender Signature on behalf of shipper i.A. Zakssek				

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach § 6 GGVSee (IMO-ERKLÄRUNG)
TRANSPORT DOCUMENT FOR DANGEROUS GOODS

(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4, MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4, MARPOL 73/78, Annex III, regulation 4 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift) Shipper (Name & Address) Alexander Binzel Schweißtechnik GmbH & Co. KG Kiesacker 35418 Buseck, FED. REPUBLIC OF GERMANY		Buchungsnummer(n) Booking number(s) R 11A14175740 - page 2/2		
Empfänger Consignee BINZEL, S.A. DE C.V. M. de Tepezalcá 109 - P.I.V.A. Valle de Aguascalientes San Fco. de los Romo, Ags 20358 MEXICO R.F.C.: BSC 980824 R84.MEXICO		Beförderer Carrier GROUP 7 AG International Logistics Otto-Jilenthal-Str. 29 28199 Bremen		
CONTAINER/Fahrzeug-PACKZERTIFIKAT CONTAINER/VEHICLE PACKING CERTIFICATE ERKLÄRUNG Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde. DECLARATION It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1 AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES				
Schiffsnamen und Nummer der Reise Ship's name and voyage No.		Unterschrift für den Packen Signature on behalf of packer		
Ladestellen Port of loading		(Frei für Text, Anweisungen und sonstige Angaben) Reserved for text, instructions or other matter Emergency Contact No.: Mr. Hansmann +49 176 10859177 Alexander Binzel Schweißtechnik GmbH & Co. KG		
Ladestellen Port of discharge				
UN1950 AEROSOLS LIMITED QUANTITY	2.2	-	77366739, 77366743	20 case(s) 4G = 240 metal cans
Bruttomenge (Volumen/Klasse) Gross quantity (volume/class) Netto-/Bruttomenge (Volumen/Klasse) Net quantity-volume/class Net explosive mass ***		Merkblatt-Nr. (für Unit-Haltbarkeiten) Emis-Mo.		Eigenschaften/Prozess Flammpunkt/Flashpoint ** MAKING POLYMER Korrosive und Neutraltemperatur ** Corrosive and emergency temperature **
117.0 Kg gross/113.0 Kg net		F-D-S-U		
Güter angeliefert als: Goods delivered as: ☐ Stückgut / Breakbulk cargo ☐ Ladungseinheiten (Unit Loads) ☐ Unitized cargo ☐ Bulkverpackungen / Bulk packages Art der Einheit (Container, Anhänger, Tank, Fahrzeug usw.) Type of unit (Container, trailer, tank, vehicle etc.) ☐ geschlossen/closed ☐ offen/open Zusätzliche Informationen (Dieses Spalte kann bis auf die Übersicht eingegeben werden; in diesem Fall ist die zutreffende Beschreibung der Gefahr anzugeben) (This column may be left empty apart from the heading, in which case insert appropriate description)				
Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory I.A. Leonie Zakssek Ort und Datum Place and date Buseck, 15.05.2026 Unterschrift für den Versender Signature on behalf of shipper A. Binzel				

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2021

Version number 1

Revision: 16.09.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Trade name: **ABICLEAN All-in-one**
- UFI: EN10-S0VJ-P00J-DSRA
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture: No further relevant information available.
Metal-working product
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Alexander BINZEL
Schweißtechnik GmbH & Co.KG
Postfach 10 01 53 / D-35331 Giessen
Tel.: +49 (0) 6408 / 59-0
Fax: +49 (0) 6408 / 59-191
Mail: technischdokumentation@binzel-abicor.com
- Further information obtainable from: Technical Documentation
- 1.4 Emergency telephone number: Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen
Langenbeckstraße 1; Gebäude 601; 55131 Mainz
Tel. Nr.: +49 (0)6131 / 19 24 0
Universitätsmedizin der Johannes Gutenberg-Universität Mainz

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008
Met. Corr. 1 H290 May be corrosive to metals.
Acute Tox. 4 H302 Harmful if swallowed.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
 - 2.2 Label elements
 - Labelling according to Regulation (EC) No 1272/2008
 - Hazard pictograms
 - Signal word
 - Hazard-determining components of labelling:
 - Hazard statements
 - Precautionary statements
 - 2.3 Other hazards
 - Results of PBT and vPvB assessment
 - PBT:
 - vPvB:
- The product is classified and labelled according to the CLP regulation.
- 
- 
- GHS05 GHS07
- Danger
- phosphoric acid
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Not applicable.
Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Mixture: consisting of the following components.

(Contd. on page 2)

EN-GA

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2021

Version number 1

Revision: 16.09.2021

Trade name: **ABICLEAN All-in-one**

(Contd. of page 1)

- Dangerous components:

CAS: 7664-38-2 EINECS: 231-633-2	phosphoric acid Acute Tox. 3, H301; Met. Corr. 1, H290; Skin Corr. 1B, H314 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	50-100%
-------------------------------------	---	---------

- Additional information:

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information:

Immediately remove any clothing soiled by the product.

Do not leave affected persons unattended.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

- After inhalation:

Seek immediate medical advice.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

- After skin contact:

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment in case of complaints.

- After eye contact:

Call a doctor immediately.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Protect unharmed eye.

- After swallowing:

If symptoms persist consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- 4.3 Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents:

Water with full jet

- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NOx)

Carbon monoxide (CO)

- 5.3 Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

- Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- 6.2 Environmental precautions:

Avoid contact with skin and eyes

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

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- 6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Open and handle receptacle with care.

- Information about fire - and explosion protection:

Keep respiratory protective device available.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and receptacles:

Provide acid-resistant floor.
Store only in the original receptacle.
Store in a cool location.
Prevent any seepage into the ground.

- Information about storage in one common storage facility:

Store away from foodstuffs.
Do not store together with alkalis (caustic solutions).

- Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Keep container tightly sealed.
Recommended storage temperature: 5-30 °C

- Storage class:

8 B

- 7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

7664-38-2 phosphoric acid

OEL	Short-term value: 2 mg/m ³
	Long-term value: 1 mg/m ³
IOELV	

- Regulatory information

OEL: 2020 CoP for the Safety, Health and Welfare at Work

- Additional information:

The lists valid during the making were used as basis.

- 8.2 Exposure controls

- Appropriate engineering controls

No further data; see item 7.

- Individual protection measures, such as personal protective equipment

- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device, when using spray application.
Filter B

- Hand protection



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.
Check protective gloves prior to each use for their proper condition.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
After use of gloves apply skin-cleaning agents and skin cosmetics.

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- **Material of gloves** Chloroprene rubber, CR
Recommended thickness of the material: ≥ 0.6 mm
Penetration time (min.): < 480
- **Penetration time of glove material** The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye/face protection**  Tightly sealed goggles
Protective goggles and facial protection - Classification according to EN 166
- **Body protection:** protective clothing (EN 13034)
Acid resistant protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- **General Information**
- **Physical state** Fluid
- **Colour:** Colourless
- **Odour:** Odourless
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** -18 °C
- **Boiling point or initial boiling point and boiling range** 135 °C
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Decomposition temperature:** Not determined.
- **pH at 20 °C** <1
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic:** Not determined.
- **Solubility**
- **water:** Fully miscible.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Density and/or relative density**
- **Density at 20 °C:** 1.58 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.

- 9.2 Other information

- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent content:**
- **Water:** 40.0 %
- **Change in condition**
- **Evaporation rate** Not determined.

- Information with regard to physical hazard classes

- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void

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- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	May be corrosive to metals.
- Desensitised explosives	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity	No further relevant information available.
- 10.2 Chemical stability	
- Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions	Forms hydrogen in aqueous solution with metals. Exothermic reaction with: Lye When diluting, always add acid to water, never vice versa.
- 10.4 Conditions to avoid	No further relevant information available.
- 10.5 Incompatible materials:	No further relevant information available.
- 10.6 Hazardous decomposition products:	Hydrogen Phosphorus oxides (e.g. P2O5)

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity Harmful if swallowed.

- LD/LC50 values relevant for classification:

7664-38-2 phosphoric acid

Oral	LD50	200 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

- Skin corrosion/irritation	Causes severe skin burns and eye damage.
- Serious eye damage/irritation	Causes serious eye damage.
- Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
- Germ cell mutagenicity	Based on available data, the classification criteria are not met.
- Carcinogenicity	Based on available data, the classification criteria are not met.
- Reproductive toxicity	Based on available data, the classification criteria are not met.
- STOT-single exposure	Based on available data, the classification criteria are not met.
- STOT-repeated exposure	Based on available data, the classification criteria are not met.
- Aspiration hazard	Based on available data, the classification criteria are not met.

- 11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

7664-38-2 phosphoric acid

ErC50	>100 mg/l (DESMODESMUS SUBSPICATUS) (72h; OECD 201)
EC50	>100 mg/l (Daphnia magna) (48h, OECD 202)

- 12.2 Persistence and degradability	Anorganic product, is not eliminable from water by means of biological cleaning processes.
- 12.3 Bioaccumulative potential	No further relevant information available.
- 12.4 Mobility in soil	No further relevant information available.
- 12.5 Results of PBT and vPvB assessment	
- PBT:	Not applicable.
- vPvB:	Not applicable.
- 12.6 Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.

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- 12.7 Other adverse effects
- Additional ecological information:
- General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

- Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal according to official regulations

- European waste catalogue

06 01 04*	phosphoric and phosphorous acid
15 01 02	plastic packaging

- Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN number or ID number

- ADR, IMDG, IATA: UN1805

- 14.2 UN proper shipping name

- ADR: 1805 PHOSPHORIC ACID, SOLUTION
- IMDG, IATA: PHOSPHORIC ACID, SOLUTION

- 14.3 Transport hazard class(es)

- ADR



- Class: 8 (C1) Corrosive substances.
- Label: 8

- IMDG, IATA



- Class: 8 Corrosive substances.
- Label: 8

- 14.4 Packing group

- ADR, IMDG, IATA: III

- 14.5 Environmental hazards:

Not applicable.

- 14.6 Special precautions for user

- Hazard identification number (Kemler code): 80
- EMS Number: F-A, S-B
- Segregation groups: Acids
- Stowage Category: A
- Segregation Code: SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides

- 14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

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- Transport/Additional information:

- **ADR**
- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- **Transport category**
- **Tunnel restriction code**

3
E

- **IMDG**
- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":** UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- **Relevant phrases**
H290 May be corrosive to metals.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.

- **Department issuing SDS:** Technical Documentation
- **Contact:** Technical Documentation
- **Date of previous version:** 11.06.2021

- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- **Sources**
- www.echa.europa.eu
- www.baua.de
IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:
- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp
- www.dguv.de/ifa/gestis/gestis-dnel-liste

- *** Data compared to the previous version altered.**

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Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 22.11.2022

Versionsnummer 4 (ersetzt Version 3)

überarbeitet am: 22.11.2022

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

- 1.1 Produktidentifikator
- Handelsname: **Super Pistolenspray NF**
- UFI: 1H00-60WD-Q004-TC5G
- 1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird
- Verwendung des Stoffs / des Gemisches Identifizierte Verwendung: Nur für gewerbliche Anwender bestimmt!
Trennmittel
- 1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt
- Hersteller/Lieferant: Alexander BINZEL
Schweisstechnik GmbH & Co.KG
Postfach 10 01 53 / D-35331 Giessen
Tel.: +49 (0) 6408 / 59-0
Fax: +49 (0) 6408 / 59-191
Mail: technischedokumentation@binzel-abicor.com
- Auskunftgebender Bereich: Technische Dokumentation
- 1.4 Notrufnummer: Medizinische Notfallouskunft bei Vergiftungen:
Giftinformationszentrum Mainz - 24 h - Tel.: +49 (0) 6131 19240
(Beratung in deutscher oder englischer Sprache)

ABSCHNITT 2: Mögliche Gefahren

- 2.1 Einstufung des Stoffs oder Gemischs
- Einstufung gemäß Verordnung (EG) Nr. 1272/2008
Aerosol 3 H229 Behälter steht unter Druck: kann bei Erwärmung bersten.
- 2.2 Kennzeichnungselemente
- Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008
Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.
- Gefahrenpiktogramme
entfällt
- Signalwort
Achtung
- Gefahrenhinweise
H229 Behälter steht unter Druck: kann bei Erwärmung bersten.
- Sicherheitshinweise
P210 Von Funken fernhalten. Nicht rauchen.
P251 Nicht durchstechen oder verbrennen, auch nicht nach Gebrauch.
P410+P412 Vor Sonnenbestrahlung schützen. Nicht Temperaturen über 50 °C/122 °F aussetzen.
P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.
- 2.3 Sonstige Gefahren
- Ergebnisse der PBT- und vPvB-Beurteilung
- PBT: Nicht anwendbar.
- vPvB: Nicht anwendbar.

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

- 3.2 Gemische
- Beschreibung: Gemisch: bestehend aus nachfolgend angeführten Stoffen.

- Gefährliche Inhaltsstoffe:

CAS: 7727-37-9	Stickstoff	Press. Gas (Ref. Liq.), H281	2,5-10%
EINECS: 231-783-9			

- Zusätzliche Hinweise: Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- 4.1 Beschreibung der Erste-Hilfe-Maßnahmen
- Allgemeine Hinweise: Vergiftungssymptome können erst nach vielen Stunden auftreten, deshalb ärztliche Überwachung mindestens 48 Stunden nach einem Unfall.
Mit Produkt verunreinigte Kleidungsstücke unverzüglich entfernen.
Betroffene nicht unbeaufsichtigt lassen.
Selbstschutz des Ersthelfers.
Betroffenen aus dem Gefahrenbereich bringen und hinlegen.
Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.
Frischlufzufuhr, bei Beschwerden Arzt aufsuchen.
- Nach Einatmen: Sofort mit Wasser und Seife abwaschen und gut nachspülen.
Bei Beschwerden ärztlicher Behandlung zuführen.
- Nach Hautkontakt: Ärztlicher Behandlung zuführen.
- Nach Augenkontakt: Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.
Unverletztes Auge schützen.

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- Nach Verschlucken: Bei anhaltenden Beschwerden Arzt konsultieren.
- 4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen: Keine weiteren relevanten Informationen verfügbar.
- 4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung: Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- 5.1 Löschmittel
- Geeignete Löschmittel: CO₂, Löschpulver oder Wassersprühstrahl. Größeren Brand mit Wassersprühstrahl oder alkoholbeständigem Schaum bekämpfen. Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- Aus Sicherheitsgründen ungeeignete Löschmittel: Wasser im Vollstrahl
- 5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren: CO₂
Beim Erhitzen oder im Brandfalle Bildung giftiger Gase möglich.
Stickoxide (NO_x)
Kohlenmonoxid (CO)
- 5.3 Hinweise für die Brandbekämpfung
- Besondere Schutzausrüstung: Explosions- und Brandgase nicht einatmen.
Kontaminiertes Löschwasser getrennt sammeln, darf nicht in die Kanalisation gelangen.
Brandrückstände und kontaminiertes Löschwasser müssen entsprechend den behördlichen Vorschriften entsorgt werden.
- Weitere Angaben

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- 6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren: Schutzausrüstung tragen. Ungeschützte Personen fernhalten.
Für ausreichende Lüftung sorgen.
Berührung mit der Haut und den Augen vermeiden.
Bei Einwirkung von Dämpfen/Staub/Aerosol Atemschutz verwenden.
- 6.2 Umweltschutzmaßnahmen: Bei Eindringen in Gewässer oder Kanalisation zuständige Behörden benachrichtigen.
Flächenmäßige Ausdehnung verhindern (z.B. durch Eindämmen oder Ölsperren).
- 6.3 Methoden und Material für Rückhaltung und Reinigung: Für ausreichende Lüftung sorgen.
Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.
- 6.4 Verweis auf andere Abschnitte: Informationen zur sicheren Handhabung siehe Abschnitt 7.
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.
Informationen zur Entsorgung siehe Abschnitt 13.

ABSCHNITT 7: Handhabung und Lagerung

- 7.1 Schutzmaßnahmen zur sicheren Handhabung: In gut verschlossenen Gebinden kühl und trocken lagern.
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.
- Hinweise zum Brand- und Explosionsschutz: Keine besonderen Maßnahmen erforderlich.
- 7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten
- Lagerung:
- Anforderung an Lagerräume und Behälter: Nur im Originalgebinde aufbewahren.
Die behördlichen Vorschriften für das Lagern von Druckgaspackungen sind zu beachten.
Getrennt von Lebensmitteln lagern.
- Zusammenlagerungshinweise:
- Weitere Angaben zu den Lagerbedingungen: TRGS 510 beachten.
Vor Frost schützen.
Trocken lagern.
Behälter dicht geschlossen halten.
Vor Hitze und direkter Sonnenbestrahlung schützen.
Empfohlene Lagertemperatur: 5 - 30°C
- Lagerklasse: TRGS 510
2 B
- Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV): -

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- 7.3 Spezifische Endanwendungen

Keine weiteren relevanten Informationen verfügbar.

(Fortsetzung von Seite 2)

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- 8.1 Zu überwachende Parameter

- Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:

- Zusätzliche Hinweise: Als Grundlage dienen die bei der Erstellung gültigen Listen.

- 8.2 Begrenzung und Überwachung der Exposition

- Geeignete technische

Steuerungseinrichtungen

Keine weiteren Angaben, siehe Abschnitt 7.

- Individuelle Schutzmaßnahmen, zum Beispiel persönliche Schutzausrüstung

- Allgemeine Schutz- und

Hygienemaßnahmen:

Die üblichen Vorsichtsmaßnahmen beim Umgang mit Chemikalien sind zu beachten.

Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.

Beschmutzte, getränkte Kleidung sofort ausziehen.

Vor den Pausen und bei Arbeitsende Hände waschen.

Berührung mit den Augen und der Haut vermeiden.

Bei sachgemäßer Verwendung und unter normalen Bedingungen ist ein Atemschutz nicht erforderlich.

Bei unzureichender Belüftung Atemschutz.

Filter A/P2

Atemschutzgeräte - Gasfilter und Kombinationsfilter nach (DIN EN 141)

- Atemschutz

- Handschutz



Schutzhandschuhe

Schutzhandschuhe vor jeder Benutzung auf ihren ordnungsgemäßen Zustand prüfen.
Nur Chemikalien - Schutzhandschuhe mit einer CE-Kennzeichnung der Kategorie III verwenden.

Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein.

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.

Nach der Verwendung von Handschuhen Hautreinigung- und Hautpflegemittel einsetzen.

- Handschuhmaterial

Empfohlenes Material:

Nitrilkautschuk

Empfohlene Materialstärke: $\geq 0,1$ mm

Durchdringungszeit (min.): < 10

Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich.

- Durchdringungszeit des Handschuhmaterials

Die ermittelten Durchbruchzeiten gemäß EN 16523-1:2015 werden nicht unter Praxisbedingungen durchgeführt. Es wird daher eine maximale Tragezeit die 50 % der Durchbruchzeit entspricht empfohlen.

- Augen-/Gesichtsschutz



Dichtschließende Schutzbrille

Schutzbrillen und Gesichtsschutz – Klassifizierung nach EN 166

Schutzkleidung (EN 13034)

- Körperschutz:

ABSCHNITT 9: Physikalische und chemische Eigenschaften

- 9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

- Allgemeine Angaben

- Aggregatzustand

Aerosol

- Farbe

Weißlich

- Geruch:

Charakteristisch

- Geruchsschwelle:

Nicht bestimmt.

- Schmelzpunkt/Gefrierpunkt:

Nicht bestimmt.

- Siedepunkt oder Siedebeginn und Siedebereich

Nicht anwendbar, da Aerosol.*

- Entzündbarkeit

Der Stoff ist nicht entzündlich.

- Untere und obere Explosionsgrenze

- Untere:

Nicht bestimmt.

Obere:

Nicht bestimmt.

- Flammpunkt:

Nicht anwendbar, da Aerosol.*

(Fortsetzung auf Seite 4)

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(Fortsetzung von Seite 3)

- Zersetzungstemperatur:	Nicht bestimmt.
- pH-Wert bei 20 °C:	9
- Viskosität:	
- Kinematische Viskosität	Nicht bestimmt.
Dynamisch:	Nicht bestimmt.
- Löslichkeit	
- Wasser:	Nicht bzw. wenig mischbar.
- Verteilungskoeffizient n-Oktanol/Wasser (log-Wert)	Nicht bestimmt.
- Dichte und/oder relative Dichte	
- Dichte bei 20 °C:	0,99 g/cm³
- Relative Dichte	Nicht bestimmt.
- Dampfdichte	Nicht bestimmt.

- 9.2 Sonstige Angaben	
- Aussehen:	
- Form:	Aerosol
- Wichtige Angaben zum Gesundheits- und Umweltschutz sowie zur Sicherheit	
- Explosive Eigenschaften:	Nicht bestimmt.
- Zustandsänderung	
- Verdampfungsgeschwindigkeit	Nicht anwendbar.

- Angaben über physikalische Gefahrenklassen
- Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff

- Entzündbare Gase	entfällt
- Aerosole	entfällt
	Behälter steht unter Druck: kann bei Erwärmung bersten.
- Oxidierende Gase	entfällt
- Gase unter Druck	entfällt
- Entzündbare Flüssigkeiten	entfällt
- Entzündbare Feststoffe	entfällt
- Selbstzersetzliche Stoffe und Gemische	entfällt
- Pyrophore Flüssigkeiten	entfällt
- Pyrophore Feststoffe	entfällt
- Selbsterhitzungsfähige Stoffe und Gemische	entfällt
- Stoffe und Gemische, die in Kontakt mit Wasser entzündbare Gase entwickeln	entfällt
- Oxidierende Flüssigkeiten	entfällt
- Oxidierende Feststoffe	entfällt

(Fortsetzung auf Seite 5)

DE

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 22.11.2022

Versionsnummer 4 (ersetzt Version 3)

überarbeitet am: 22.11.2022

Handelsname: Super Pistolenspray NF

(Fortsetzung von Seite 4)

- Organische Peroxide
entfällt
- Gegenüber Metallen korrosiv wirkende Stoffe und Gemische
entfällt
- Desensibilisierte Stoffe/Gemische und Erzeugnisse mit Explosivstoff
entfällt

ABSCHNITT 10: Stabilität und Reaktivität

- 10.1 Reaktivität
Keine weiteren relevanten Informationen verfügbar.
- 10.2 Chemische Stabilität
Keine weiteren relevanten Informationen verfügbar.
- Thermische Zersetzung / zu vermeidende Bedingungen:
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- 10.3 Möglichkeit gefährlicher Reaktionen
Keine gefährlichen Reaktionen bekannt.
- 10.4 Zu vermeidende Bedingungen
Keine weiteren relevanten Informationen verfügbar.
- 10.5 Unverträgliche Materialien:
Keine weiteren relevanten Informationen verfügbar.
- 10.6 Gefährliche Zersetzungsprodukte:
Keine gefährlichen Zersetzungsprodukte bekannt.

ABSCHNITT 11: Toxikologische Angaben

- 11.1 Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008
- Akute Toxizität
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- Ätz-/Reizwirkung auf die Haut
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- Schwere Augenschädigung/-reizung
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- Sensibilisierung der Atemwege/Haut
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- Keimzellmutagenität
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- Karzinogenität
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- Reproduktionstoxizität
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- Spezifische Zielorgan-Toxizität bei einmaliger Exposition
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- Spezifische Zielorgan-Toxizität bei wiederholter Exposition
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- Aspirationsgefahr
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- 11.2 Angaben über sonstige Gefahren

- Endokrinschädliche Eigenschaften

Keiner der Inhaltsstoffe ist enthalten.

ABSCHNITT 12: Umweltbezogene Angaben

- 12.1 Toxizität
- Aquatische Toxizität:
Keine weiteren relevanten Informationen verfügbar.
- 12.2 Persistenz und Abbaubarkeit
Keine weiteren relevanten Informationen verfügbar.
- 12.3 Bioakkumulationspotenzial
Keine weiteren relevanten Informationen verfügbar.
- 12.4 Mobilität im Boden
Keine weiteren relevanten Informationen verfügbar.
- 12.5 Ergebnisse der PBT- und vPvB-Beurteilung
- PBT:
Nicht anwendbar.
- vPvB:
Nicht anwendbar.
- 12.6 Endokrinschädliche Eigenschaften
Das Produkt enthält keine Stoffe mit endokrinschädlichen Eigenschaften.
- 12.7 Andere schädliche Wirkungen
- Weitere ökologische Hinweise:
- Allgemeine Hinweise:
Nicht unverdünnt bzw. in größeren Mengen in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen.
Nicht wassergefährdend.

DE

(Fortsetzung auf Seite 6)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

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überarbeitet am: 22.11.2022

Handelsname: **Super Pistolenspray NF**

(Fortsetzung von Seite 5)

ABSCHNITT 13: Hinweise zur Entsorgung

- 13.1 Verfahren der Abfallbehandlung

- Empfehlung:

Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
Entsorgung gemäß den behördlichen Vorschriften

- Europäisches Abfallverzeichnis

16 05 05	Gase in Druckbehältern mit Ausnahme derjenigen, die unter 16 05 04 fallen
15 01 10*	Verpackungen, die Rückstände gefährlicher Stoffe enthalten oder durch gefährliche Stoffe verunreinigt sind
15 01 04	Verpackungen aus Metall

- Ungereinigte Verpackungen:

- Empfehlung:

Entsorgung gemäß den behördlichen Vorschriften.

ABSCHNITT 14: Angaben zum Transport

- 14.1 UN-Nummer oder ID-Nummer

- ADR, IMDG, IATA

UN1950

- 14.2 Ordnungsgemäße UN-Versandbezeichnung

- ADR

1950 DRUCKGASPACKUNGEN

- IMDG

AEROSOLS

- IATA

AEROSOLS, non-flammable

- 14.3 Transportgefahrenklassen

- ADR



- Klasse

2.5A Gase

- Gefahrzettel

2.2

- IMDG, IATA



- Class

2.2 Gase

- Label

2.2

- 14.4 Verpackungsgruppe

- ADR, IMDG, IATA

entfällt

- 14.5 Umweltgefahren:

Nicht anwendbar.

- 14.6 Besondere Vorsichtsmaßnahmen für den Verwender

- Nummer zur Kennzeichnung der Gefahr (Kemler-Zahl):

Achtung: Gase

- EMS-Nummer:

-

- Stowage Code

F-D,S-U
SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

- Segregation Code

SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
For AEROSOLS with a capacity above 1 litre:
Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.

- Transport/weitere Angaben:

- ADR

- Begrenzte Menge (LQ)

1L

- Freigestellte Mengen (EQ)

Code: E0

In freigestellten Mengen nicht zugelassen

- Beförderungskategorie

3

- Tunnelbeschränkungscode

E

(Fortsetzung auf Seite 7)

DE

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

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überarbeitet am: 22.11.2022

Handelsname: Super Pistolenspray NF

(Fortsetzung von Seite 6)

- IMDG	1L
- Limited quantities (LQ)	Code: E0
- Excepted quantities (EQ)	Not permitted as Excepted Quantity
- UN "Model Regulation":	UN 1950 DRUCKGASPACKUNGEN, 2.2

ABSCHNITT 15: Rechtsvorschriften

- 15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

- Richtlinie 2012/18/EU

- Namentlich aufgeführte gefährliche Stoffe -

ANHANG I

Keiner der Inhaltsstoffe ist enthalten.

- VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII

Beschränkungsbedingungen: 3

- Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten – Anhang II

Keiner der Inhaltsstoffe ist enthalten.

- VERORDNUNG (EU) 2019/1148

- Anhang I - BESCHRÄNKTE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE (Oberer Konzentrationsgrenzwert für eine Genehmigung nach Artikel 5 Absatz 3)

Keiner der Inhaltsstoffe ist enthalten.

- Anhang II - MELDEPFLICHTIGE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE

Keiner der Inhaltsstoffe ist enthalten.

- Verordnung (EG) Nr. 273/2004 betreffend Drogenausgangsstoffe

Keiner der Inhaltsstoffe ist enthalten.

- Verordnung (EG) Nr. 111/2005 zur Festlegung von Vorschriften für die Überwachung des Handels mit Drogenaustauschstoffen zwischen der Gemeinschaft und Drittländern

Keiner der Inhaltsstoffe ist enthalten.

- Nationale Vorschriften:

- Hinweise zur Beschäftigungsbeschränkung: Beschäftigungsbeschränkungen nach §22 ArbSchG für Jugendliche beachten.
Beschäftigungsbeschränkungen für werdende und stillende Mütter beachten.
Beschäftigungsbeschränkungen für Frauen im gebärfähigen Alter beachten.

- Technische Anleitung Luft:

Klasse	Anteil in %
NK	50-100

- Wassergefährdungsklasse:

Im allgemeinen nicht wassergefährdend. - Einstufung nach Anhang 1 (AwSV)

- 15.2 Stoffsicherheitsbeurteilung:

Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

Das Sicherheitsdatenblatt entspricht auch den Anhang I der Verordnung (EU) Nr. 453/2010 und Anhang II der Verordnung (EU) Nr. 2020/878.

- Relevante Sätze

H281 Enthält tiefgekühltes Gas; kann Kälteverbrennungen oder -verletzungen verursachen.

- Datenblatt ausstellender Bereich:

Technische Dokumentation

- Ansprechpartner:

Technische Dokumentation

- Datum der Vorgängerversion:

21.11.2022

- Versionsnummer der Vorgängerversion:

3

- Abkürzungen und Akronyme:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Aerosol 3: Aerosole – Kategorie 3
Press. Gas (Ref. Liq.): Gase unter Druck – tiefgekühlt verflüssigtes Gas
- www.echa.europa.eu
- www.baua.de
IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:
- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp
- www.dguv.de/ifa/gestis/gestis-dnel-liste

- Quellen

(Fortsetzung auf Seite 8)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

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überarbeitet am: 22.11.2022

Handelsname: **Super Pistolenspray NF**

- * Daten gegenüber der Vorversion geändert

(Fortsetzung von Seite 7)

DE

Shipper
ALEXANDER BINZEL
SCHWEISSTECHNIK GMBH & CO. KG
KIESACKER 3 - 9
DE - 35418 BUSECK

B/L No.
VER284373



SACO SHIPPING LINE LTD

SACO SHIPPING LINE LIMITED

44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

6/05/BRE/528206

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

Copy

Consigned to order of

BINZEL, S.A.DE C.V.
MUNICIPIO DE TEPEZAL #109
VALLE DE AGUASCALIENTES (P.I.V.A.
20358 SAN FCO.DE LOS ROMO,AGS MEXI
TAX ID: BSC 980824 R84
LOZANO@BINZEL.COM.MX MR HECTOR LOZANO
TEL. + 52(440)9730116

Notify Party and address

BINZEL, S.A.DE C.V.
MUNICIPIO DE TEPEZAL #109
VALLE DE AGUASCALIENTES (P.I.V.A.
20358 SAN FCO.DE LOS ROMO,AGS MEXI
TAX ID: BSC 980824 R84
LOZANO@BINZEL.COM.MX MR HECTOR LOZANO
TEL. + 52(440)9730116

		Place of receipt		
		HAMBURG CFS		
Ocean vessel			Port of loading	
GSL MARIA			HAMBURG	
Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading	
VERACRUZ	VERACRUZ CFS	BREMEN	0/ZERO	
Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg. Measurement, m ³

CARGO DETAILS AS PER ATTACHED STATEMENT

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
BINZEL S.A. DE C.BV. MUNICIPIO DE TEPEZAL #109 VALLE DE AGUASCALIENTES 20358 SAN FCA DE LOS ROMO MEXICO REF# 32601857 + 32602089	8 PACKAGES	WELDING TORCHES AND SPAREPARTS REF# 32601857 + 32602089 HS-CODES: 820411, 851590, 381090, 390422, 391739, 391740, 392321, 392690, 401693, 481910, 681599, 731815, 732020, 732690, 820320, 820780, 841410, 842139, 845690, 846630, 847989, 848120, 848390, 848790, 851590, 854449 IMO INFO: UN1805, CL. 8 PHOSPHORIC ACID, SOLUTION LIMITED QUANTITY NET WEIGHT: 1,00 KG BRUTTO WEIGHT: 11,00 KG UN1950, CL.2.2 AEROSOLS LIMITED QUANTITY NET WEIGHT: 113,00 KG NET WEIGHT: 117,00 KG EMERGENCY CONTACT NO.: +49 176 10859177 UN 1805/Class 8/PG III Imo Gross Weight: 11,000 KGS Imo Net Weight : 1,000 KGS UN 1950/Class 2.2/PG Imo Gross Weight: 117,000 KGS Imo Net Weight : 113,000 KGS		2310,000	10,076
STOWED INTO CONTAINER NO.: MRSU3859357			SEAL : B052457		
TOTAL	8 PACKAGES			2310,000 KGS	10,076 CBM

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

nach § 6 GGSee (IMO-Erklärung)
TRANSPORT DOCUMENT FOR DANGEROUS GOODS
(IMO-DANGEROUS GOODS DECLARATION)

VER284374_1_1/1

This form meets the requirements of SOLAS 74, chapter VII regulation 4.2; MARPOL 73/78, Annex III, regulation 5.2 and the IMDG-Code, Chapter 5.4

Versender (Name & Anschrift) Shipper (Name & Address) Sudarshan Langeßheim P.L.T GmbH Heubachstraße 7 38685 Langeßheim GERMANY		Buchungsummer(n) Reference number(s)		
Employer Consignee Sudarshan Mexico MFG S.A. de C.V. Plásticos No. 28, Col. Santa Clara Coatlila, 55540 Ecatepec de Morelos, Edo de México MEXICO		Beförderer Carrier		
CONTAINER / FAHRZEUG-PACKZERTIFIKAT CONTAINER / VEHICLE PACKING CERTIFICATE		Container-Fahrzeug-Nr.: Container/Vehicle No.:		
ERKLÄRUNG Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gem. den Bestimmungen nach 5.4.2.1 durchgeführt wurde. DECLARATION It is declared that the packing of the goods into the cargo transport unit has been carried out in accordance with the provisions of 5.4.2.1. AUSFÜLLEN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES		Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory		
Schiff's name and voyage No. GSL MARIA		Ort und Datum Place and date		
Ladefahrten Port of loading Bremen/Haven		Unterschrift für den Packen Signature on behalf of packer		
Ladefahrten Port of discharge Veracruz		(Frei für Text, Anweisungen und sonstige Angaben) (Reserved for text, instructions or other matter) Emergency-Contact-Phone / CHEMTREC - Day or Night / Reg. no. CGN200555 Outside Continental USA: +01-527-5367 / Within USA: +1-800-424-9350		
UN-Nr. Proper Shipping Name (Correct technical name) *	Klasse/Unter- klasse/IMO (IMO Class/ Subsidiary Class)	Verschackungsgruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder amtl. Kennzeichen Marks & Nos. if applicable, identification or registration number(s) of the Unit	Anzahl und Verpackung No. and kind of packages
UN3077 Environmentally hazardous substance, solid, n.o.s. (TRIZINCBS(ORTHO- PHOSPHATE)) IMDG CODE SEGERATION GROUP - NONE	9	III	HEUCOPHOS ZCP-PLUS ref #212425	240 paper bags (5M2) of 25 kg net each
Bruttomenge (Volumen/Masse) Gross quantity (volume/mass) Netto Explosivstoffmenge Net explosive mass ***		Eigenschaften / Properties Flammpunkt / Flashpoint Temperatur / Temperature Kontroll- und Notfalltemperatur ** Control- and emergency temperature **		Güter angeliefert als / Goods delivered as: ☒ Stückgut / Breakbulk cargo ☐ Ladungseinheiten (Unit Loads) ☐ Unlizenziertes cargo ☐ Bulkverpackungen / Bulk packages Art der Einheit (Container, Anhänger, Tank, Fahrzeug usw.) Type of unit (container, trailer, tank, vehicle etc.) ☐ offen / open ☒ geschlossen / closed Zusätzliche Anweisungen Insert "X" in appropriate box (Diese Spalte kann bis auf die Überschrift freigegeben werden; in diesem Fall ist die Zusätzliche Beschreibung einzusetzen) Additional instructions may be inserted from the heading, in which case insert appropriate description.
6192 kg gross 6000 kg net		F-A, S-F		MARINE POLLUTANT
ZUSÄTZLICHE ANGABEN Unter bestimmten Bedingungen sind besondere Angaben/Beschreibungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite). ADDITIONAL INFORMATION In certain circumstances special information/certificates are required; see IMDG-Code, chapter 5.4 (see backside).				
ERKLÄRUNG DES VERSENDER: Hiermit erkläre ich, dass der Inhalt dieser Sendung mit dem (den) richtigen technischen Namen vollständig und genau bezeichnet ist. Die Güter sind nach den geltenden internationalen und na- tionalen Vorschriften klassifiziert, verpackt, gekennzeichnet und beschriftet/plakatiert und befin- den sich in jeder Hinsicht in einem für die Beförderung geeigneten Zustand. SHIPPER'S DECLARATION: I hereby declare that the contents of this consignment are fully and accurately described by the proper shipping name, and are classified, packaged and labelled/placarded and are in all respects in proper condition for transport according to the applicable international and national government regulations.				
Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory Ort und Datum Place and date Langesheim, 2026-05-15 Unterzeichnet für den Versender/Sudarshan Langeßheim P.L.T GmbH Signature on behalf of shipper Heubachstraße 7 38685 Langeßheim Deutschland / Germany				

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: HEUCOPHOS ZCP-PLUS

Article-No.: 1001705

Revision Date: 03.02.2025

Replaces version from: 10.11.2022

Version: 2.12/en

Print date: 16.01.2026

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**Commercial Product Name **HEUCOPHOS ZCP-PLUS****1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses Anticorrosion additive (Industrial)

1.3 Details of the supplier of the safety data sheet

Company designation Sudarshan Langelsheim PLT GmbH
 Heubachstrasse 7
 D-38685 Langelsheim
 Telephone: +49(0)5326-52-0
 FAX: +49(0)5326-52-213
 Email: -
 Internet: www.heubach.com

Responsible Department Email: DL-DELH.Product-Safety@heubach.com

1.4 Emergency telephone number

Argentina	CHEMTREC Argentina (Buenos Aires): +(54)-1159839431
Brazil	CHEMTREC Brazil (Rio De Janeiro): +(55)-2139581449
Chile	CHEMTREC Chile (Santiago): +(56)-225814934
Colombia	CHEMTREC Colombia: 01800-710-2151
Mexico	CHEMTREC Mexico: 01-800-681-9531
Peru	CHEMTREC Peru (Lima): +(51)-17071295
Bahrain	CHEMTREC Bahrain: +(973)-16199372
Israel	CHEMTREC Israel (Tel Aviv): +(972)-37630639
Kuwait National	CHEMTREC Kuwait National: +965-22274681
Saudi Arabia	CHEMTREC Saudi Arabia: +(966)-8111095861
South Africa	CHEMTREC South Africa: 0-800-983-611
Hong Kong	CHEMTREC Hong Kong: 800-968-793
Taiwan	CHEMTREC Taiwan: 00801-14-8954
Philippines	CHEMTREC Philippines (Manila): +(63) 2-395-3308 CHEMTREC Philippines toll free in country: 1-800-1-116-1020
Singapore	CHEMTREC Singapore: +(65)-31581349 toll free in country: 800-101-2201
Thailand	CHEMTREC Thailand: 001-800-13-203-9987
Vietnam	CHEMTREC Vietnam (Hanoi): +(84)-444581938

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation Aquatic Chronic 1; H410
 (EC) No. 1272/2008

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: HEUCOPHOS ZCP-PLUS

Article-No.: 1001705

Revision Date: 03.02.2025

Replaces version from: 10.11.2022

Version: 2.12/en

Print date: 16.01.2026

**2.2 Label elements**

Hazard pictogram



GHS09

Signal word

Warning

H-statement(s)

H410: Very toxic to aquatic life with long lasting effects.

P-statement(s)

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local / regional / national or international regulations..

2.3 Other hazards

Article 59(1) - endocrine disrupting properties

The substance/mixture does not contain any constituents that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more endocrine disrupting properties.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2 Mixtures***** Information on ingredients**

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration
trizinc bis(orthophosphate)	CAS No.: 7779-90-0 EC-No.: 231-944-3 Index-No.: 030-011-00-6 REACH No.: 01-2119485044-40-0000	Aquatic Acute 1; H400 (M=1) Aquatic Chronic 1; H410 (M=1)	25.0 - 50.0 % by weight
zinc oxide	CAS No.: 1314-13-2 EC-No.: 215-222-5 Index-No.: 030-013-00-7 REACH No.: 01-2119463881-32	Aquatic Acute 1; H400 (M=1) Aquatic Chronic 1; H410 (M=1)	< 10.0 % by weight

other substance information

Ingredient	Numbers	M- factor - SCL - ATE	Other
trizinc bis(orthophosphate)	CAS No.: 7779-90-0 EC-No.: 231-944-3 Index-No.: 030-011-00-6 REACH No.: 01-2119485044-40-0000	acute:1 chronic:1	
zinc oxide	CAS No.: 1314-13-2 EC-No.: 215-222-5 Index-No.: 030-013-00-7 REACH No.: 01-2119463881-32	acute:1 chronic:1	

Other data

Full text of H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Get medical advice/attention if you feel unwell.
If inhaled	In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical advice/attention if you feel unwell.
In case of skin contact	After contact with skin, wash immediately with plenty of water and soap.
In case of eye contact	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. If eye irritation persists: Get medical advice/attention.
If swallowed	When in doubt or if symptoms are observed, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No significant reactions of the human body to the product known.
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4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention	Treat symptomatically.
-----------------------------	------------------------

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Extinguishing powder Water spray jet In case of major fire and large quantities: alcohol resistant foam
Extinguishing media which must not be used for safety reasons	Full water jet Carbon dioxide

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	Co-ordinate fire-fighting measures to the fire surroundings. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Hazardous decomposition byproducts may form with exposure to high temperatures.: Gases/vapours, toxic. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.
---	---

5.3 Advice for firefighters

Special protective equipment for fire-fighting	Use personal protection equipment. In case of fire: Wear self-contained breathing apparatus.
--	---

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid generation of dust. Wear personal protection equipment (refer to section 8). Wear breathing apparatus if exposed to vapours/dusts/aerosols.
----------------------	---

6.2 Environmental precautions

Environmental precautions	Do not allow to enter into surface water or drains.
---------------------------	---

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If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Avoid generation of dust.
Wet clean or vacuum up solids.
Collect in closed and suitable containers for disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

Reference to other sections

Observe protective provisions (see chapter 7 and 8).
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid generation of dust.
Wear suitable protective clothing.
If the formation of dust is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used.
Wear eye glasses with side protection according to EN 166.
When using do not eat or drink.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements

Store in a dry place.
Keep/Store only in original container.

TRGS 510

Storage class 13

7.3 Specific end use(s)

Specific use(s)

For the relevant identified uses listed in section 1 the advice in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

trizinc bis(orthophosphate)

*DNEL	Target group	Exposure route	Source
Not applicable	DNEL worker	DNEL long-term inhalative (systemic)	REACH Dossier
Not applicable	DNEL worker	DNEL long-term dermal (systemic)	REACH Dossier
Not applicable	DNEL Consumer	DNEL long-term dermal (systemic)	REACH Dossier
Not applicable	DNEL Consumer	DNEL long-term inhalative (systemic)	REACH Dossier
Not applicable	DNEL Consumer	DNEL long-term oral (repeated)	REACH Dossier

*PNEC	Exposure route	Remarks	Source
14,4 µgZn/L	PNEC aquatic, freshwater	Zn++	REACH Dossier
7,2 µgZn/L	PNEC aquatic, marine water	Zn++	REACH Dossier

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146,9 mgZn/kg sediment dw	PNEC sediment, freshwater	Zn++	REACH Dossier
162,2 mgZn/kg sediment dw	PNEC sediment, marine water	Zn++	REACH Dossier
83,1 mgZn/kg soil dw	PNEC soil	Zn++	REACH Dossier
100 µgZn/L	PNEC sewage treatment plant (STP)	Zn++	REACH Dossier
85 µgZn/L	PNEC aquatic, freshwater	* 1)	REACH Dossier
42,5 µgZn/L	PNEC aquatic, marine water	* 1)	REACH Dossier
867,4 mgZn/kg sediment dw	PNEC Sediment (Süßwasser)	* 1)	REACH Dossier
957,7 mgZn/kg sediment dw	PNEC Sediment (Meerwasser)	* 1)	REACH Dossier
490,7 mgZn/kg soil dw	PNEC soil	* 1)	REACH Dossier
590,5 µgZn/L	PNEC sewage treatment plant (STP)	* 1)	REACH Dossier

* 1): trizinc bis(orthophosphate)

zinc oxide

DNEL	Target group	Exposure route	Source
5 mg/m ³	DNEL worker	DNEL long-term inhalative (systemic)	REACH Dossier
83 mg/kg bw/day	DNEL worker	DNEL long-term dermal (systemic)	REACH Dossier
83 mg/kg bw/day	DNEL Consumer	DNEL long-term dermal (systemic)	REACH Dossier
2,5 mg/m ³	DNEL Consumer	DNEL long-term inhalative (systemic)	REACH Dossier
0,83 mg/kg bw/day	DNEL Consumer	DNEL long-term oral (repeated)	REACH Dossier
0,5 mg/m ³	DNEL worker	DNEL long-term inhalative (local)	REACH Dossier

PNEC	Exposure route	Source
20,6 µgZn/L	PNEC aquatic, freshwater	REACH Dossier
6,1 µgZn/L	PNEC aquatic, marine water	REACH Dossier
117,8 mgZn/kg sediment dw	PNEC sediment, freshwater	REACH Dossier
56,5 mgZn/kg sediment dw	PNEC sediment, marine water	REACH Dossier
35,6 mgZn/kg soil dw	PNEC soil	REACH Dossier
100 µgZn/L	PNEC sewage treatment plant (STP)	REACH Dossier

8.2 Exposure controls

Respiratory protection

With normal handling, no respiratory personal protection (breathing apparatus) is necessary.

If risk for exceedance of OEL/DNEL, use e.g.:

dust filter-half mask P1 (DIN EN 149)(efficiency 75%)

dust filter-half mask P2 (DIN EN 149)(efficiency 90%)

dust filter-half mask P3 (DIN EN 149)(efficiency 95%)

dust filter-full mask P1 (DIN EN 149)(efficiency 75%)

dust filter-full mask P2 (DIN EN 149)(efficiency 90 %)

dust filter-full mask P3 (DIN EN 149)(efficiency 97.5%)

Hand protection

Chemical proof protective gloves (EN 374) e.g. nitrile rubber (0.4mm), chloroprene rubber (0.5mm), polyvinylchloride (0.7mm), among others. Due to a large variety of types the manufacturer's instructions should be followed.

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Eye protection	Wear eye glasses with side protection according to EN 166.
Skin and body protection	Wear suitable protective clothing.
General protective and hygiene measures	Common employment protection rules and the usual precautions for handling chemicals are to be observed.
Information on environmental protection regulations	Environmental exposure controls. Avoid release to the environment. Do not allow to enter into surface water or drains. Collect spillage. Observe in addition any national regulations!
Consumer exposure controls	See section 7. No additional measures necessary.
Engineering measures	If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
Other information	Dust control: dust and Zn in dust needs to be measured in the workplace air (static or individual) according to national regulations.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state	solid
Form	Powder
Colour	white
Odour	odourless
Odour threshold	not determined
Melting point [°C] / Freezing point [°C]	not determined
Boiling point [°C]	not applicable
Boiling range [°C]	not applicable
Flammability	not determined
Explosion limits [Vol-%]	
Lower limit	not applicable
Upper limit	not applicable
Flash point [°C]	not determined
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not determined
pH	
Temperature [°C]	20 °C
Concentration	100 g/L in aqueous solution 6,5 - 8,0
Viscosity, kinematic [mm²/s]	not applicable
Viscosity, dynamic [kg/(m s)]	not applicable
Water solubility [g/l]	< 5
Measuring method	ISO 787-3
Partition coefficient n-octanol /water (log P O/W)	not applicable

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Vapour pressure [kPa]	not applicable
Density [g/cm³]	3,2
Relative density	not determined
Relative vapour density (air=1)	not applicable
particle properties	average particle size (µm): 2,0 - 3,5 Coulter Multisizer 3

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity	No hazardous reaction when handled and stored according to provisions.
------------	--

10.2 Chemical stability

Chemical stability	Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.
--------------------	---

10.3 Possibility of hazardous reactions

Hazardous reactions	No hazardous reactions when stored and handled according to instructions.
---------------------	---

10.4 Conditions to avoid

Conditions to avoid	Avoid generation of dust.
---------------------	---------------------------

10.5 Incompatible materials

Materials to avoid	No incompatible materials known. Not expected based on the composition.
--------------------	---

10.6 Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products if stored and handled as prescribed/indicated.
----------------------------------	--

SECTION 11: Toxicological information

11.1 Information on the hazard classes within the meaning of Regulation (EU) No. 1272/2008

Oral toxicity [mg/kg]	>5000 mg/kg
Test criterion	LD50:
Test species	rat
Remarks	trizinc bis(orthophosphate)
Test method	OECD 401 >5000 mg/kg
Test criterion	LD50:
Test species	rat
Remarks	zinc oxide
Test method	Source: Manufacturer

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Dermal toxicity [mg/kg]	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Inhalative toxicity [mg/l]	>5,7 mg/kg
Test criterion	LC50:
Test species	Rat
Measuring method	OECD 403
Note	trizinc bis(orthophosphate): trizinc bis(orthophosphate) (based on cross-reading from zinc oxide) is of low acute inhalation toxicity (i.e., LC50 values of > 5.7 mg/L/4 hrs), not leading to classification for acute inhalation toxicity.
Exposure duration [h]	4h >5,7 mg/kg
Test criterion	LC50:
Test species	Rat
Measuring method	Source: Manufacturer
Note	zinc oxide
Exposure duration [h]	4h
Irritant effect on skin	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Irritant effect on eyes	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Irritant effect on the respiratory tract	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Sensitization	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Mutagenicity	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Carcinogenic effects	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Reproduction toxicity	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Specific target organ toxicity (single exposure) [mg/kg]	
Remarks	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Specific target organ toxicity (repeated exposure) [mg/kg]	
Remarks	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Aspiration hazard	not applicable

11.2 Information about other hazards

Endocrine disrupting properties	The substance/mixture does not contain any constituents that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation
---------------------------------	--

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(EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more endocrine disrupting properties.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l]	> 1000
Test criterion	LC50:
Test species	Oncorhynchus mykiss (Rainbow trout)
Exposure duration [h]	96h
Remarks	The statement is derived from products of similar structure or composition.
Toxicity to daphnia [mg/l]	> 1000
Test criterion	EC50
Test species	Daphnia magna
Exposure duration [h]	48h
Remarks	The statement is derived from products of similar structure or composition.
Toxicity to algae [mg/l]	> 100
Test criterion	ErC50:
Test species	Desmodesmus subspicatus.
Exposure duration [h]	72h
Remarks	The statement is derived from products of similar structure or composition.
Aquatic toxicity [mg/l]	Chronic (long-term) toxicity: Very toxic to aquatic life with long lasting effects.
Remarks	Calculation method.

12.2 Persistence and degradability

Biodegradability	No information available.
------------------	---------------------------

12.3 Bioaccumulative potential

Bioaccumulation	No information available.
-----------------	---------------------------

12.4 Mobility in soil

Mobility	
Mobility	No information available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
------------------------------------	---

12.6 Endocrine disrupting properties

Harmful effects on the environment	The substance/mixture does not contain any constituents that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more endocrine disrupting properties.
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12.7 Other harmful effects

Further information on ecology

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations

Dispose of waste according to applicable legislation. Check for possible recycling. Disposal via wastewater is not recommended.

Uncleaned empty packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning.
Handle contaminated packages in the same way as the substance itself.
Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	3077	3077	3077
14.2 Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
14.3 Transport hazard class(es)	9	9	9
14.4 Packaging group	III	III	III
Danger releasing substance	Trizinkbis(orthophosphat)	trizinc bis(orthophosphate)	trizinc bis(orthophosphate)
Labels			
Risk No.	90		
Category	3		
Classification Code	M7		
Name affix	mixture	mixture	mixture
14.5 Environmental hazards	U - Environmentally hazardous	U - marine pollutant	U - Environmentally hazardous
UN proper shipping name	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trizinkbis(orthophosphat))	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trizinc bis(orthophosphate))	UN 3077 Environmentally hazardous substance, solid, n.o.s. (trizinc bis(orthophosphate))
EmS		F-A;S-F	
Stowage category		A	

14.6 Special precautions for user

Precautions

Avoid release to the environment.

14.7 Bulk transport by sea according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Additional regulations	No information available.
References to substance in ordinances, regulations and information sheets	REACH ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES Number 3, 75

15.2 Chemical safety assessment

Safety assessment	For the following substances of this mixture a chemical safety assessment has been carried out: trizinc bis(orthophosphate) zinc oxide
-------------------	--

SECTION 16: Other information

Modifications since last version	Modifications of the previous version are denoted with an asterisk (*).
Abbreviations and acronyms	ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) PP: Severe Marine Pollutant P: Marine Pollutant GHS: Globally Harmonized System of Classification and Labelling of Chemicals VCI: Verband der chemischen Industrie, Deutschland (German chemical industry association) EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria) VOC: Volatile Organic Compounds (USA, EU) ISO: International Organization for Standardization DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Relevant H-phrases	H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

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Wording of the hazard classes

Aquatic Acute: Hazardous to the aquatic environment
Aquatic Chronic: Hazardous to the aquatic environment

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Evaluation	Classification
Calculation method.	Aquatic Chronic 1; H410

Training advice

Workers should be instructed according to the contents of this MSDS. Workers should be trained on the common employment protection rules and the usual precautions when handling chemicals.

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.

Shipper
SUDARSHAN LANGELSHEIM PLT GMBH
DE4514611019

HEUBACHSTR. 7
38685 LANGELSHEIM

B/L No.
VER284374



SACO SHIPPING LINE LTD

Consigned to order of

LESCHACO MEXICANA S.A.. DE C.V.
BLVD MANUEL AVILA CAMACHO 88 PISO 8
COL LOMAS DE CHAPULTEPEC
CP 11000, CIUDAD DE MEXICO, MEXICO
TAX ID:LME980116R15 BRENDA MORALES
IMPOMEX@LESCHACO.COM PH: +5255 43730105
BRENDA.MORALES@LESCHACO.COM*

Notify Party and address

LESCHACO MEXICANA S.A.. DE C.V.
BLVD MANUEL AVILA CAMACHO 88 PISO 8
COL LOMAS DE CHAPULTEPEC
CP 11000, CIUDAD DE MEXICO, MEXICO
TAX ID:LME980116R15 BRENDA MORALES
IMPOMEX@LESCHACO.COM PH: +5255 43730105
BRENDA.MORALES@LESCHACO.COM*

SACO SHIPPING LINE LIMITED

44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528207

Copy

		Place of receipt				
		BREMEN CFS				
Ocean vessel	Port of loading					
GSL MARIA	BREMERHAVEN					
Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading			
VERACRUZ	VERACRUZ CFS	BREMEN	0/ZERO			
Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³	
CARGO DETAILS AS PER ATTACHED STATEMENT						

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue

BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
PO 4506985469 PO 4506987664	8 PALLETS	S.T.C. 300 PAPERBAGS HEUCODUR YELLOW 152 (P) (HARMLESS) HEUCOPHOS ZCP-PLUS HS CODE:28352990,32064970 IMO CLASS: 9 UN NO.: 3077 PACKAGING GROUP: III NET WEIGHT: 6000 KG MARINE POLLUTANT * Y SUDARSHAN MEXICO MFG, S.A. DE C.V PLASTICOS NO. 28, COL SANTA CLARA COATILA ECATEPEC DE MORELOS 55540, EDO. MEXICO, MEXICO RFC CPA150831D6A PHONE: (5255) 4352 4372 ATTENTION TO: ANA ISABEL PERALTA / MAIL TO: ANAIABEL.PERALTA1@SUDARSHAN.C OM JUAN.ESCALONA@SUDARSHAN.COM LOGISTICS_HEUBACH_MX@HEUBACH.C OM IMPORT_DESK_LATAM@HEUBACH.COM		7590,000	13,519
STOWED INTO CONTAINER NO.: MRSU3859357				SEAL : B052457	
TOTAL		8 PALLETS		7590,000 KGS	13,519 CBM

Shipper
SCAN GLOBAL LOGISTICS GMBH
VIOLENSTRASSE 27
28195 BREMEN

B/L No.
VER284385



SACO SHIPPING LINE LTD

Consigned to order of
SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMAS DE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

Notify Party and address
SGL TRANSGROUP DE MEXICO SA DE CV.
AV. PASEO DE LAS PALMAS,405 INT 501
COL. LOMASDE CHAPULTEPEC,
CP 11000 CIUDAD DE MEXICO.
TAX ID STM2012087C3 ++
++ OPERATIONS.MTY@SCANGL.COM

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528208

Copy

		Place of receipt BREMEN CFS	
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ		Place of delivery VERACRUZ CFS	Freight payable VERACRUZ
			Number of original Bills of Lading 0/ZERO
Marks and Nos. SEG AUTOMOTIVE MEXICO 5939987 STOWED INTO CONTAINER NO.: MRSU3859357	Quantity of Goods 1 PALLET	Description of Goods BALL BEARING HS: 84821090 INVOICE: 94685964	Said to contain Gross weight, kg. 130,000 Measurement, m ³ 0,334
TOTAL		1 PALLET	130,000 KGS 0,334 CBM

SEAL : B052457

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper
QUALIFIED CARGO SOLUTIONS GMBH
HESSENING 30
64546 MOERFELDEN-WALLDORF
GERMANY
TAX-ID: DE111656032

B/L No.
VER284386



SACO SHIPPING LINE LTD

Consigned to order of

SEA BRIDGE MEXICO SA DE CV
LAGUNA DE TERMINOS 221 TORRE B PISO 5
OFICINA 504 COL. GRANADA C.P 11520
ALC. MIGUEL HIDALGO, CDMX, MEXICO
TAX ID: SBM0601253SA TEL: +52 55 4161 5990/3
NOTIFICATIONS@SEABRIDGE.MX

Notify Party and address

SEA BRIDGE MEXICO SA DE CV
LAGUNA DE TERMINOS 221 TORRE B PISO 5
OFICINA 504 COL. GRANADA C.P 11520
ALC. MIGUEL HIDALGO, CDMX, MEXICO
TAX ID: SBM0601253SA TEL: +52 55 4161 5990/3
NOTIFICATIONS@SEABRIDGE.MX

SACO SHIPPING LINE LIMITED

44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528209

Copy

		Place of receipt HAMBURG CFS	
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS	Freight payable VERACRUZ	Number of original Bills of Lading 0/ZERO
Marks and Nos. UBERBLOCK SA DE CV MX RO: 400097785 STOWED INTO CONTAINER NO.: MRSU3859357	Quantity of Goods 1 CARTON	Description of Goods HELICAL GEARED MOTOR HS: 84779080	Said to contain Gross weight, kg. 98,000 Measurement, m ³ 0,179

SEAL : B052457

TOTAL **1 CARTON** **98,000 KGS** **0,179 CBM**

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA, C.P. 06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper
GEIS AIR & SEA GMBH
MATTENTWIETE 8
D-20457 HAMBURGO/ALEMANIA
VAT-NO. DE314559060

B/L No.
VER284401



SACO SHIPPING LINE LTD

SACO SHIPPING LINE LIMITED

44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

6/05/BRE/528202

Copy

Consigned to order of
SEA CARGO LOGISTICS S.A.DE C.V.
TAX ID SCL090414QE0
LEIBNITZ 117,OFFICE 401,COL.ANZURES
C.P.11590, CDMX, MIGUEL HIDALGO, MX
EMAIL: ARELI.HUERTA@SEACARGO.COM

Notify Party and address
SEA CARGO LOGISTICS S.A.DE C.V.
TAX ID SCL090414QE0
LEIBNITZ 117,OFFICE 401,COL.ANZURES
C.P.11590, CDMX, MIGUEL HIDALGO, MX
EMAIL: ARELI.HUERTA@SEACARGO.COM

		Place of receipt BREMEN CFS	
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS		Freight payable VERACRUZ
		Number of original Bills of Lading 0/ZERO	

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
WOREGG 53169021 ----- SHIPPED ON BOARD FREIGHT COLLECT ----- EXPRESS BILL OF LADING, NO ORIGINALS ISSUED ----- --	1 PALLET	S.L.A.C. ALUMINIUM-STRIPS - H.S.CODE 7606.1292		1078,000	1,014

STOWED INTO CONTAINER NO.: MRSU3859357

SEAL : B052457

TOTAL **1 PALLET** **1078,000 KGS** **1,014 CBM**

FREIGHT COLLECT - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVICIOS INTERNACIONALS DE
COMERCIO, COLIMA 114 DESPACHO 201,
COLONIA ROMA,C.P. 06700 MEXICO D.F.
TEL:005255146915,FAX:005252087989
DANIELA.BORJA@INTERTEAM.COM.MX

Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
HAMBURG 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Shipper
HOENNETALER KETTENFABRIK
GMBH & CO. KG

BUNDESSTR. 30
59846 SUNDERN, GERMANY

B/L No.
VER284402



SACO SHIPPING LINE LTD

Consigned to order of
ZINKPOWER HIDALGO
CALLE PONENTE 1 # 9 ZONA PONIENTE
PARQUE INDUSTRIAL AITALAQUIA
AITALAQUIA

HIDALGO, CP 42970
MEXICO

Notify Party and address
ZINKPOWERMONTERREY, S.A. DE C.V.
RSC: PMO070327891
RIO MISSISSIPPI 303 OTE,
COL DEL VALLE
66220 SAN PEDRO GARZA GARCIA, NL
AMARANTA.TIRADO@ZINKPOWER.COM

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
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LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528211

Copy

		Place of receipt BREMEN CFS	
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO
Marks and Nos. ZINKPOWER HIDALGO ATITALAQUIA RSC NO. PMO070327891 STOWED INTO CONTAINER NO.: MRSU3859357	Quantity of Goods 3 CASES	Description of Goods CADENA, GRILLETE HS CODE: 73158200, 73159000	Said to contain Gross weight, kg. 3468,000 Measurement, m ³ 2,359
		SEAL : B052457	

TOTAL	3 CASES	3468,000 KGS	2,359 CBM
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FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA, C.P. 06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper
FONTANA FASTENERS DEUTSCHLAND
HEINRICH-HERTZ-STR. 54-56
40699 ERKRATH
GERMANY

B/L No.
VER284415



SACO SHIPPING LINE LTD

Consigned to order of
AUTOMOTIVE LOGISTICS SC
AV. 5 DE MAYO 867 A, COL. VERACRUZ CENTRO
91700 VERACRUZ
MEXICO
TAX ID (RFC): ALO040713F38
CONTACT: ALO.LOGISTICS@AUTOLOG.COM.MX

Notify Party and address
MOTHERSON SAS AUTOMOTIVE
MODULE SERVICES MEXICO S.A. DE C.V.
AUTOPISTA MEXICO-PUEBLA KM 117, LOTE 2
SAN LORENZO ALMECATLA, CUAUTLANCINGO
C.P. 72710, PUEBLA, MEXICO

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528212

Copy

		Place of receipt HAMBURG CFS				
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN				
Port of discharge VERACRUZ		Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO		
Marks and Nos.	Quantity of Goods		Description of Goods	Said to contain	Gross weight, kg.	Measurement, m³
PROFORMA INVOICE 90402681 DELIVERY NOTE 80762889	2 PALLET		1 PALLET BOLTS GROSS 38 KGS, NET 25 KGS TREATED AND CERTIFIED		63,000	0,440
			1 0,480 25,000			
PROFORMA INVOICE 90402682 DELIVERY NOTE 80762890			1 PALLET BOLTS GROSS 25 KGS, NET 12 KGS TREATED AND CERTIFIED			
		HS-CODE: 73181595				

STOWED INTO CONTAINER NO.: MRSU3859357

SEAL : B052457

TOTAL **2 PALLET** **63,000 KGS** **0,440 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA, C.P. 06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Shipper
ALPHA TRANS AS AGENT OF
BLUE ARROW CONTAINER LINE LTD.
RM 907, 9/F., CHEVALIER COMMERCIAL
CENTER, 8 WANG HOI ROAD
KOWLOON BAY, KOWLOON, HONG KONG

B/L No.
VER284416



SACO SHIPPING LINE LTD

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528213

Copy

Consigned to order of
CARGO Y SERVICIOS INTERNACIONALES,
S.A. DE C.V.
RCF CSI010716Q89
CALLE NORTE 176 NR. 436
COL. PENSADOR MEXICANO
15510 CIUDAD DE MEXICO, CMX, MEXICO
PHONE: 52 55 26432100

Notify Party and address
CARGO Y SERVICIOS INTERNACIONALES,
S.A. DE C.V.
RCF CSI010716Q89
CALLE NORTE 176 NR. 436
COL. PENSADOR MEXICANO
15510 CIUDAD DE MEXICO, CMX, MEXICO
PHONE: 52 55 26432100

		Place of receipt BREMEN CFS	
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO
Marks and Nos. INV. 106338 INV. 106259 STOWED INTO CONTAINER NO.: MRSU3859357	Quantity of Goods 2 PACKAGES	Description of Goods AUTOMOTIVE PARTS HS CODE:87089910	Said to contain Gross weight, kg. 290,000 Measurement, m ³ 1,248 SEAL : B052457

TOTAL **2 PACKAGES** **290,000 KGS** **1,248 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- a) undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
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One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper
WELBILT DEUTSCHLAND GMBH
TALSTR. 35
82436 EGLFING, DE
TAX ID: DE815885174

B/L No.
VER284430



SACO SHIPPING LINE LTD

Consigned to order of
WELBILT FSG MEXICO
S DE RL DE CV
CALLE MONTANA 176
COL. INDUSTRIAL LA PERLA C.P. 53348
NAUCALPAN DE JUAREZ ESTADO DE MEXICO
MEXICO TAX ID. MFM060502RP1

Notify Party and address
WELBILT FSG MEXICO
S DE RL DE CV
CALLE MONTANA 176
COL. INDUSTRIAL LA PERLA C.P. 53348
NAUCALPAN DE JUAREZ ESTADO DE MEXICO
MEXICO TAX ID. MFM060502RP1

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528214

Copy

		Place of receipt BREMEN CFS	
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS		Freight payable BREMEN
		Number of original Bills of Lading 0/ZERO	
Marks and Nos. WELBILT FSG MEXICO S DE RL DE CV CALLE MONTANA 176 COL. INDUSTRIAL LA PERLA C.P. 53348 NAUCALPAN DE JUAREZ ESTADO DE MEXICO MEXICO TAX ID. MFM060502RP1	Quantity of Goods 1 PACKAGE	Description of Goods CONVOTHERM COMBI STEAMER NCM-CODE-NO: 841981,841990 WOODEN PACKAGING IS TREATED AND/OR FUMIGATED IN ACCORDANCE WITH THE ISPM 15 REGULATIONS AS PER THE DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICES ("APHIS")	Said to contain Gross weight, kg. 197,000 Measurement, m ³ 1,756

STOWED INTO CONTAINER NO.: MRSU3859357

SEAL : B052457

TOTAL **1 PACKAGE** **197,000 KGS** **1,756 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA, C.P. 06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

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IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper
NGL NAVIGATOR GLOBAL LOGISTICS GMBH
FELIX-WANKEL-STRASSE 3
STUHR NI 28816 GERMANY
EORI+DE6702740

B/L No.
VER284431



SACO SHIPPING LINE LTD

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528215

Copy

Consigned to order of
NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZAVALA 1306 SANTA CRUZ
BUENAVISTA
PUEBLA PUE 72150 MEXICO
+522225036510 RFC+NNG201012KD4
SEA@NGL-MEXICO.COM

Notify Party and address
NGL NAVIGATOR GLOBAL LOGISTICS S. DE R.L
DE C.V.
CALZADA ZAVALA 1306 SANTA CRUZ
BUENAVISTA
PUEBLA PUE 72150 MEXICO
+522225036510 RFC+NNG201012KD4
SEA@NGL-MEXICO.COM

		Place of receipt BREMEN CFS	
Ocean vessel GSL MARIA		Port of loading BREMERHAVEN, GERMANY	
Port of discharge VERACRUZ, MEXICO	Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO
Marks and Nos. EISSMANN MEXICO DN 00117446	Quantity of Goods 1 PALLET	Description of Goods AUTOMOTIVE SPARE PARTS HS -CODE: 392630 **HSCODE: 392630**	Said to contain Gross weight, kg. 183,500 Measurement, m ³ 1,018
STOWED INTO CONTAINER NO.: MRSU3859357		SEAL : B052457	

TOTAL	1 PALLET	183,500 KGS	1,018 CBM
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FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA, C.P. 06700, MEXICO DF
PH: 514-69 15 FX: 208-79-8
INT-961206-ES7

RECEIVED for shipment the above mentioned Goods in apparent good order and condition as far as could be ascertained by exercising reasonable means of checking or as stated above.

The Carrier in accordance with the provisions contained on this side and on the reverse side of this document;

- undertakes to perform or to procure the performance of the entire transport from the place at which the Goods are taken in charge to the place designated for delivery in this document, and
- assumes liability as prescribed in this document for such transport.

One of the Bills of Lading to be surrendered duly endorsed in exchange for the Goods or delivery order.

IN WITNESS whereof three (3) original Bills of Lading have been signed, if not otherwise stated above, one of which being accomplished the other(s) to be void.

Place and date of issue
BREMEN 30.05.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Bürgermeister-Smidt-Str. 128
28195 Bremen
Germany



As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Shipper
F. UNDUETSCH GMBH
VAT:DE 114628774

EMIL-SOMMER-STR. 4-6
28329 BREMEN/GERMANY

B/L No.
VER284446



SACO SHIPPING LINE LTD

Consigned to order of
COLEGIO ALEMAN
ALEXANDER VON HUMBOLDT, A.C.
COL. HUICHAPAN (LA NORIA)
AV. MEXICO NO. 5501
16030 XOCHIMILCO / MEXICO, D.F.
VAT-ID-NO.CAA681031IXA

Notify Party and address
CORPORATIVO ADUANAL ROBLES, S.C.
AV. 16 DE SEPTIEMBRE 1556, ENTRE AZUETA
Y C. AGUSTÍN DE ITURBIDE,
RICARDO FLORES MAGÓN, 91900 VERACRUZ,
VER.
KFERNANDEZ@ROBLESAA.COM.MX

SACO SHIPPING LINE LIMITED
44, Kroytser
PANORAMA Residence
Block A, Flat 01
3120 Limassol CYPRUS
FMC Organization No. 025875

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
RESULTING FROM EMERGENCY
QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/05/BRE/528216

Copy

		Place of receipt BREMEN CFS		
Ocean vessel GSL MARIA	Port of loading BREMERHAVEN			
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS	Freight payable BREMEN	Number of original Bills of Lading 0/ZERO	
Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg. Measurement, m ³
CARGO DETAILS AS PER ATTACHED STATEMENT				

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

For delivery of cargo please apply to:

INTERTEAM, S.A. DE C.V.
SERVIC. INTERNACION. DE COMERCIO
COLIMA 114 DESPACHO 201
COLONIA ROMA,C.P.06700, MEXICO DF
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28195 Bremen
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As agent only for SACO SHIPPING LINE LIMITED LIMASSOL



Declared Value of the Goods (see clause 12)
US\$
Ad valorem freight paid:

Note:

The Merchant's attention is called to the fact that according to Clauses 11 to 13 of this Bill of Lading, the liability of the Carrier is, in most cases, limited in respect of loss of or damage to the goods and delay

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
FUCO 10464 / 1-4 FUCO 10465 / 1-9 FUCO 10466 / 1-15 FUCO 10467 / 1-4 FUCO 10471 / 1-8 FUCO 10472 / 1-15 FUCO 10473 / 1-8 FUCO 10474 / 1-11 FUCO 10479 / 1-4 FUCO 10480 / 1-22 FUCO 10481 / 1-19 FUCO 10482 / 1-5 ALEXANDER VON HUMBOLDT MEXICO CITY / MEXICO STOWED INTO CONTAINER NO.: MRSU3859357	3 PALLETS	MATERIAL DIDACTICO Y LIBROS (PARTIDA 3926, 4901, 4903, 4905, 4911 Y 9503) HS-CODE: 39261000, 49019100, 49019900, 49030000, 49052000, 49119900, 95030095 INCL. 14 DAYS STORAGE FREE TIME AT DESTINATION		704,000	3,215
TOTAL				704,000 KGS	3,215 CBM

SEAL : B052457