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TYP: B/L	111
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TYP: B/L	112
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SACO Shipping GmbH · Bürgermeister-Smidt-Str. 128 · 28195 Bremen

NVOCC Services worldwide

Bremen, 16. September 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.: 1021261503

Leistungsdatum : 12.09.2026

INVOICE-No	INVOICE-Date	CUSTOMER-No	SACO-Ref.	B/L-Ref.	Your VAT-ID	R.O.E
5696179	16.09.2026	020896	6/09/BRE/526000	6/09/BRE/5260		0.8633

Vessel:

Destination:

Online-Ref:

Delivery:

Pieces

Gross KOS

Volumen CBM

SACO REF.: VESSEL: PORT: ETA: CONTAINER:
6/09/BRE/5260 MAERSK DANUBE VERACRUZ 30.09.2026 UETU8026092

Pos.	Description	Rate	Amount	Tax
1	AS PER ATTACHED PL SHEET	521.68 USD	521.68	

NO VAT ON	VAT ON	TOTAL VAT	VAT	TOTAL AMOUNT USD
521.68	0	0	19%	521.68

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.: 6/09/BRE/5260
Vessel: MAERSK DANUBE
Port: VERACRUZ

ETA: 30.09.2026

Container: UETU8026092



B/L	COLLECT	incl.Special charges	Doc fee	Unstuffing	Admin Fee	Transm.Fee	Port Transf	On Carriage	0,00 USD	Quote No.:
VER285829										
VER285865										
VER285866										
VER285899										
VER285932										
VER285946										
VER285957										
VER285971										
VER285972										
VER285975										
VER285986										
VER285993										
VER285997										
VER286011			50,00	224,48				Lerma	669,28	IN-LND-07984
	0,00		50,00	224,48	0,00	0,00	0,00		669,28	

COLLECT FREIGHT TOTAL

RELEASE FEE

UNSTUFFING

ADMIN FEE

TRANSMISSION FEE

CREDIT FOR ON CARRIAGE

PORT TRANSFER

0,00 USD

0,00 USD

debit to Intert

50,00 USD

224,48 USD

0,00 USD

0,00 USD

669,28 USD

0,00 USD

943,76 USD

credit to Inter

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

date 01.10.2023 FRT:

61,060

1.465,44 USD

1.465,44 USD

debit to Intert

Hartrodt Kickback USD 4,50 w/m

FRT:

0,00 USD

0,00 USD

debit to Intert

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

521,68 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			

 MAERSK		NON-NEGOTIABLE WAYBILL		SCAC MAEU
				B/L No. 721558808
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. 721558808		
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		Export references 609BRE5260 ARA		
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		Svc Contract 299542652		
		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)		
Vessel MAERSK DANUBE	Voyage No. 636W	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 53 PACKAGE UETU 802609-2 40/DRY 9'6 3 PALLET GROSS WEIGHT: 390.000 KGS MEASUREMENT: 1.613 CBM 300 KG BINAL143 - SODIUM PIECES, SEALED IN ALUMINIUM COMPOUND FOIL UN 1428 SODIUM, IMO 4.3, I CONTRACT NO.:26.8.6-AS HS-CODE: 28051100 1 PALLET GROSS WEIGHT: 458.200 KGS MEASUREMENT: 1.037 CBM REWOCOROS AC 101 HS-CODE: 382499 2 DRUM 1 PALLET GROSS WEIGHT: 175.800 KGS MEASUREMENT: 0.754 CBM DERMOFEEL SENSOLV MB	Weight 24786.440 KGS	Measurement 54.893 CBM
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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) 2026-09-12 Date Issue of Waybill 2026-09-15 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-CODE: 291590
6 CAN
2 PKG GROSS WEIGHT: 231.000 KGS MEASUREMENT: 0.825 CBM
WELDING UNIT + MACHINERY
SPARE
PARTS HS-CODE:
850152, 848490, 851590
HSCODE: 850152
1
0,061 60,000
MACHINERY SPARE PARTS
HS-CODE:
850152, 848490,
851590
HSCODE: 850152
1 CASE GROSS WEIGHT: 535.000 KGS MEASUREMENT: 0.474 CBM
MASTER ALLOY
HS-CODE: 7604 29 10
4 PALLETS GROSS WEIGHT: 4128.000 KGS MEASUREMENT: 7.455 CBM
160 PAPERBAGS
HEUCOPHOS ZPA
HS CODE: 28352990
IMO CLASS: 9
UN NO.: 3077
PACKAGING GROUP: III
NET WEIGHT: 4000 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:

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

ANA ISABEL PERALTA / MAIL
TO:
ANAIISABEL.PERALTA1@SUDARSH
AN.COM
JUAN.ESCALONA@SUDARSHAN.CO
M
LOGISTICS-HEUBACH-MX@HEUBA
CH.COM
IMPORT-DESK-LATAM@HEUBACH.
COM
UN 3077/CLASS 9/PG III
IMO GROSS WEIGHT: 4128,000
KGS
IMO NET WEIGHT : 4000,000
KGS
2 PKG GROSS WEIGHT: 437.000 KGS MEASUREMENT: 1.469 CBM
CLAMPING SYSTEMS HS-CODE:
392350, 392690, 730451,
761090, 843139, 847990
HSCODE: 761090
1 PACKAGES GROSS WEIGHT: 1228.000 KGS MEASUREMENT: 9.625 CBM
HS CODE: 84799070
INHALT:
1 BRIDGE WITH DISC BRUSHES
SB 1800
1 MANUAL ROTATION STAND
FOR BRIDGE ASSEMBLY
1 PKG GROSS WEIGHT: 385.000 KGS MEASUREMENT: 0.507 CBM
CIRCULAR SAW BLADES
INVOICE: VR26X02472
HSCODE: 820239
1 PKG GROSS WEIGHT: 495.000 KGS MEASUREMENT: 0.575 CBM
CIRCULAR SAW BLADES
INVOICE: VR26X02473
HSCODE: 820239
10 CASES GROSS WEIGHT: 9461.000 KGS MEASUREMENT: 3.294 CBM

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

BAR STEEL,
MACHINED OPEN-DIE
FORGINGS
HS CODE: 72284010,
73269092, 73261910
2 CRATES GROSS WEIGHT: 697.000 KGS MEASUREMENT: 4.828 CBM
ELECTRIC GAS MIXERS,
CONNECTION SETS,
STAINLESS STEEL
RECEIVER
HS: 73110091,
74122000, 90328900
8 PACKAGES GROSS WEIGHT: 2834.000 KGS MEASUREMENT: 10.559 CBM
WELDING TORCHES AND
SPAREPARTS
REF#
32603590 + 32603531+
32603347
HS-CODES: 392690, 846693,
851590, 853650, 820411,
381090, 391739, 391910,
392321, 400911, 400931,
401693, 681599, 731815,
732690, 741220, 741980,
820780, 841239, 841410,
842199, 842199, 847989,
848120, 848120, 848210,
848390, 851590, 853690,
853690, 854442, 854449
5 PKG GROSS WEIGHT: 1045.200 KGS MEASUREMENT: 3.861 CBM
TABLEWARE INVOICE:
98347287,
98347288, 98347289,
98347290, 94310819 HS
CODE:
69111000 HBL:

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

BRG0219116
 HSCODE: 691110
 11 PALLETS GROSS WEIGHT: 2286.240 KGS MEASUREMENT: 8.017 CBM
 ELRING GASKETS AND
 GASKET SETS
 HS CODES: 840999,848790
 848490, 731815,741521
 681599
 DELIVERY TO:
 MAHLE AFTERMARKET S DE RL
 DE CV
 KM 53.900 CARRETERA
 MEXICO
 - TOLUCA, ZONA INDUSTRIAL
 DONA
 ROSA, LETRA E 1A LERMA,
 MX 52000
 EXPRESS RELEASE

UETU8026092 40 DRY 9'6 53 PACKAGE 24786.440 KGS 54.893 CBM
 Shipper Seal : B199356
 IMO Class: 9
 UN Number: 3077
 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
[\[https://www.maersk.com/news/articles/2022/02/24/russia-ukraine-situation-update\]](https://www.maersk.com/news/articles/2022/02/24/russia-ukraine-situation-update),

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

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
CY/CY

Freight & Charges	Rate	Unit	Currency	Prepaid	Collect

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

SCAC MAEU

B/L No. 721558808

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.
721558808

Export references
609BRE5260 ARA

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)

Vessel
MAERSK DANUBE

Voyage No.
636W

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 53 PACKAGE

UETU 802609-2 40/DRY 9'6
3 PALLET GROSS WEIGHT: 390.000 KGS MEASUREMENT: 1.613 CBM
300 KG BINAL143 - SODIUM
PIECES,
SEALED IN ALUMINIUM
COMPOUND FOIL
UN 1428 SODIUM, IMO 4.3,
I
CONTRACT NO.:26.8.6-AS
HS-CODE: 28051100
1 PALLET GROSS WEIGHT: 458.200 KGS MEASUREMENT: 1.037 CBM
REWOCOROS AC 101
HS-CODE: 382499
2 DRUM
1 PALLET GROSS WEIGHT: 175.800 KGS MEASUREMENT: 0.754 CBM
DERMOFEEL SENSOLV MB

Weight
24786.440 KGS

Measurement
54.893 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)
2026-09-12

Date Issue of Waybill
2026-09-15

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-CODE: 291590
6 CAN
2 PKG GROSS WEIGHT: 231.000 KGS MEASUREMENT: 0.825 CBM
WELDING UNIT + MACHINERY
SPARE
PARTS HS-CODE:
850152, 848490, 851590
HSCODE: 850152
1
0,061 60,000
MACHINERY SPARE PARTS
HS-CODE:
850152, 848490,
851590
HSCODE: 850152
1 CASE GROSS WEIGHT: 535.000 KGS MEASUREMENT: 0.474 CBM
MASTER ALLOY
HS-CODE: 7604 29 10
4 PALLETS GROSS WEIGHT: 4128.000 KGS MEASUREMENT: 7.455 CBM
160 PAPERBAGS
HEUCOPHOS ZPA
HS CODE: 28352990
IMO CLASS: 9
UN NO.: 3077
PACKAGING GROUP: III
NET WEIGHT: 4000 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

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

ATTENTION TO:
ANA ISABEL PERALTA / MAIL
TO:
ANAIABEL.PERALTA1@SUDARSH
AN.COM
JUAN.ESCALONA@SUDARSHAN.CO
M
LOGISTICS-HEUBACH-MX@HEUBA
CH.COM
IMPORT-DESK-LATAM@HEUBACH.
COM
UN 3077/CLASS 9/PG III
IMO GROSS WEIGHT: 4128,000
KGS
IMO NET WEIGHT : 4000,000
KGS
2 PKG GROSS WEIGHT: 437.000 KGS MEASUREMENT: 1.469 CBM
CLAMPING SYSTEMS HS-CODE:
392350, 392690, 730451,
761090, 843139, 847990
HSCODE: 761090
1 PACKAGES GROSS WEIGHT: 1228.000 KGS MEASUREMENT: 9.625 CBM
HS CODE: 84799070
INHALT:
1 BRIDGE WITH DISC BRUSHES
SB 1800
1 MANUAL ROTATION STAND
FOR BRIDGE ASSEMBLY
1 PKG GROSS WEIGHT: 385.000 KGS MEASUREMENT: 0.507 CBM
CIRCULAR SAW BLADES
INVOICE: VR26X02472
HSCODE: 820239
1 PKG GROSS WEIGHT: 495.000 KGS MEASUREMENT: 0.575 CBM
CIRCULAR SAW BLADES
INVOICE: VR26X02473

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

HSCODE: 820239

10 CASES GROSS WEIGHT: 9461.000 KGS MEASUREMENT: 3.294 CBM

BAR STEEL,
MACHINED OPEN-DIE
FORGINGS

HS CODE: 72284010,
73269092, 73261910

2 CRATES GROSS WEIGHT: 697.000 KGS MEASUREMENT: 4.828 CBM

ELECTRIC GAS MIXERS,
CONNECTION SETS,
STAINLESS STEEL
RECEIVER

HS: 73110091,
74122000, 90328900

8 PACKAGES GROSS WEIGHT: 2834.000 KGS MEASUREMENT: 10.559 CBM

WELDING TORCHES AND
SPAREPARTS

REF#

32603590 + 32603531+
32603347

HS-CODES: 392690, 846693,

851590, 853650, 820411,

381090, 391739, 391910,

392321, 400911, 400931,

401693, 681599, 731815,

732690, 741220, 741980,

820780, 841239, 841410,

842199, 842199, 847989,

848120, 848120, 848210,

848390, 851590, 853690,

853690, 854442, 854449

5 PKG GROSS WEIGHT: 1045.200 KGS MEASUREMENT: 3.861 CBM

TABLEWARE INVOICE:

98347287,

98347288, 98347289,

Freight & Charges

Rate

Unit

Currency

Prepaid

Collect

Manifest

Page: 1

Container-No.: UETU8026092 40' HIGH CUBE CONTAINER Seal-No.: B199356
Vessel: SAC2136 / MAERSK DANUBE
ETS:
Master-B/L.: 721558808

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER285829	VER285829 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	PALLET	300 KG BINAL143 - SODIUM PIECES, SEALED IN ALUMINIUM COMPOUND FOIL UN 1428 SODIUM, IMO 4.3, I CONTRACT NO.:26.8.6-AS HS-CODE: 28051100	390.000	1.613
VER285865	VER285865 EVONIK OPERATIONS GMBH 3012821463 REWOCOROS AC 101 46528414 MADE IN %COUNTYOFORIGI	1	PALLET	REWOCOROS AC 101 HS-CODE: 382499 2 DRUM	458.200	1.037
VER285866	VER285866 EVONIK INDUSTRIES DE MEXICO P.O. 46528422 DERMOFEEL SENSOLV MB EVONIK ORDER NO. 3012827206 VERACRUZ / MEXICO	1	PALLET	DERMOFEEL SENSOLV MB HS-CODE: 291590 6 CAN	175.800	0.754

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Container-No.: UETU8026092 40' HIGH CUBE CONTAINER Seal-No.: B199356
Vessel: SAC2136 / MAERSK DANUBE
ETS:
Master-B/L.: 721558808

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER285899	TUNKERS DE MEXICO DN 361058	2	PALLETS	CLAMPING SYSTEMS HS-CODE: 392350, 392690, 730451, 761090, 843139, 847990 **HSCODE: 761090**	437.000	1.469
VER285899	TUNKERS MX NV4263508 TUNKERS MX NV4263547-49	2	PALLET	WELDING UNIT + MACHINERY SPARE PARTS HS-CODE: 850152, 848490, 851590 **HSCODE: 850152** 1 0,061 60,000 MACHINERY SPARE PARTS HS-CODE: 850152, 848490, 851590 **HSCODE: 850152**	231.000	0.825
VER285932	LCL / LCL TECNOLOGICA GESELLSCHAFT FUER HIGH TECH MATERIALIEN UND VERFAHREN GMBH PR26-0209 ASTEMO MEXICO, S.A. DE C.V. P/O M301220 BATCH NO. 32951601/1	1	CASE	MASTER ALLOY HS-CODE: 7604 29 10	535.000	0.474

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Container-No.: UETU8026092 40' HIGH CUBE CONTAINER Seal-No.: B199356
 Vessel: SAC2136 / MAERSK DANUBE
 ETS:
 Master-B/L.: 721558808

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER285946	PO 4506999298	4	PALLETS	160 PAPERBAGS HEUCOPHOS ZPA HS CODE: 28352990 IMO CLASS: 9 UN NO.: 3077 PACKAGING GROUP: III NET WEIGHT: 4000 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: ANAISABEL.PERALTA@SU LOGISTICS_HEUBACH IMPORT_DESK_LATAM UN 3077/CLASS 9/PG III IMO GROSS WEIGHT: 4128,000 KGS IMO NET WEIGHT : 4000,000 KGS	4128.000	7.455

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Container-No.: UETU8026092 40' HIGH CUBE CONTAINER Seal-No.: B199356
Vessel: SAC2136 / MAERSK DANUBE
ETS:
Master-B/L.: 721558808

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER285957	VER285957 SAINT-GOBAIN MEXICO INV:O. SI261207_30-3902 PL: 30-3902	1	PACKAGES	HS CODE: 84799070 INHALT: 1 BRIDGE WITH DISC BRUSHES SB 1800 1 MANUAL ROTATION STAND FOR BRIDGE ASSEMBLY	1228.000	9.625
VER285971	VER285971 TUBOS DE ACERO MEXICO MADE IN GERMANY PO 3105796991	1	CAS	CIRCULAR SAW BLADES INVOICE: VR26X02472 **HSCODE: 820239**	385.000	0.507
VER285972	VER285972 TUBOS DE ACERO MEXICO MADE IN GERMANY PO REPLACEMENT SAWS FOR BROKEN ONES	1	CASE	CIRCULAR SAW BLADES INVOICE: VR26X02473 **HSCODE: 820239**	495.000	0.575

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Container-No.: UETU8026092 40' HIGH CUBE CONTAINER Seal-No.: B199356
Vessel: SAC2136 / MAERSK DANUBE
ETS:
Master-B/L.: 721558808

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER285975	VER285975 THYSSENKRUPP METALURGICA SAN MIGUEL XOXTLA/MEXICO KIND ORDER NO.: 4008145, 4008140, 4008149 BOX NO. 1/ BLOCKS RPU (1.2367) DISCS USD (1.2344) RING SEGMENTS USD (1.2344) MADE IN GERMANY PUERTO VERACRUZ / MEXICO	10	CASES	BAR STEEL, MACHINED OPEN-DIE FORGINGS HS CODE: 72284010, 73269092, 73261910	9461.000	3.294
VER285986	VER285986 PRAXAIR MEXICO 62651217 INVOICE-NO.: 61659726	2	CRATES	ELECTRIC GAS MIXERS, CONNECTION SETS, STAINLESS STEEL RECEIVER HS: 73110091, 74122000, 90328900	697.000	4.828

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Container-No.: UETU8026092 40' HIGH CUBE CONTAINER Seal-No.: B199356
Vessel: SAC2136 / MAERSK DANUBE
ETS:
Master-B/L.: 721558808

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER285993	BINZEL S.A. DE C.BV. MUNICIPIO DE TEPEZAL #109 VALLE DE AGUASCALIENTES 20358 SAN FCA DE LOS ROMO MEXICO REF# 32603590 + 32603531+ 32603347	8	PACKAGES	WELDING TORCHES AND SPAREPARTS REF# 32603590 + 32603531+ 32603347 HS-CODES: 392690, 846693, 851590, 853650, 820411, 381090, 391739, 391910, 392321, 400911, 400931, 401693, 681599, 731815, 732690, 741220, 741980, 820780, 841239, 841410, 842199, 842199, 847989, 848120, 848120, 848210, 848390, 851590, 853690, 853690, 854442, 854449	2834.000	10.559
VER285997	HOTELHAUS, S.A. DE C.V. MEXICO ORDER: B-2671,SH-2629, B-2633,B-2665, B-2651	5	PACKAGES	TABLEWARE INVOICE: 98347287, 98347288, 98347289, 98347290, 94310819 HS CODE: 69111000 HBL: BRG0219116 **HSCODE: 691110**	1045.200	3.861

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Container-No.: UETU8026092 40' HIGH CUBE CONTAINER Seal-No.: B199356
Vessel: SAC2136 / MAERSK DANUBE
ETS:
Master-B/L.: 721558808

BL-Ref	Marks & Nos	Qty	Packing	Description of goods	Kos	Cbm
VER286011	MAHLE AFTERMARKET MEXICO *PATENTE: 3649 LIC LUIS ANGEL CARVALLO / YURIDIA CASTILLA /CARLOS ALEMN/ANTON TEL - FAX: (229)937-9711 EXT. 822 E-MAIL: ANGELCARVALLO@ OMEN.COM	11	PALLETS	ELRING GASKETS AND GASKET SETS HS CODES: 840999,848790 848490, 731815,741521 681599 DELIVERY TO: MAHLE AFTERMARKET S DE RL DE CV KM 53.900 CARRETERA MEXICO - TOLUCA, ZONA INDUSTRIAL DONA ROSA, LETRA E 1A LERMA, MX 52000	2286.240	8.017

Total

Quantity
53

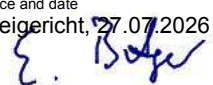
Grossweight
24.786.440

Measurement
54.893

BEFÖRDERUNGSDOKUMENT FÜR GEFÄHRLICHE GÜTER

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

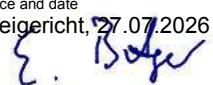
Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4; MARPOL 73/78, Anlage III, Regel 4 und dem IMDG-Code, Kapitel 5.4
This form meets the requirements of SOLAS 74, chapter VII regulation 4; MARPOL 73/78, Annex III, Regulation 4 and the IMDG-Code, Chapter 5.4

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, 27.07.2026  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
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Schiffsname und Nummer der Reise Ship's name and voyage No.		Ladehafen Port of loading			
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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.)
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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

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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

1.2 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

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

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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**

MATERIAL SAFETY DATA SHEET

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

date of issue: 15.01.2009

revised 02:04:2024



Dr. Bilger Umweltconsulting GmbH

product: BINAL

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

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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

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

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Dr. Bilger Umweltconsulting GmbH

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-GGVS/E 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.



Ficha de datos de seguridad

SECCIÓN 1. Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1. Identificador del producto

Nombre del producto :

BINAL®

REACH No : 01-2119484805-27-0002

1.2. Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

Usos identificados : Producción química, metalurgia, refinado de plomo, agente de refinado para la fundición de aluminio, producción de poliamida12, tratamiento o grabado de plásticos fluorados, deshalogenación y desulfuración de aceite mineral, como agente reductor en síntesis química. plásticos, deshalogenación y desulfuración de aceites minerales, como agente reductor en síntesis química

Usos desaconsejados : todas las aplicaciones no industriales y no relacionadas con la Investigación

1.3. Datos del proveedor de la ficha de datos de seguridad

Compañía : Dr. Bilger Umweltconsulting GmbH
Gewerbepark Birkenhain 7a
D-63579 Freigericht
Teléfono : +49 (0)6051-91669-51
E-mail de contacto : info@bilgergmbh.de

1.4. Teléfono de emergencia

Tel.: +49-(0)6051-91669-51
Este número sólo está disponible en horario de oficina.

Teléfono de Urgencia : Giftinformation **München: +49/ (0)89 19240**

SECCIÓN 2: Identificación de los peligros

2.1. Clasificación de la sustancia o de la mezcla

Clasificación de acuerdo con el Reglamento (CE) 1272/2008	
Clase/categoría de peligro	Indicación de peligro
En contacto con el agua desprende gases inflamables que pueden inflamarse espontáneamente.	H260
Provoca quemaduras graves en la piel y lesiones oculares graves	H314

Ficha de datos de seguridad conforme a la directiva
1907/2006 (Reach) modificado con 2020/878/UE
preparado: 15.01.2009
revisado: 14.08.2024



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2.2. Elementos de la etiqueta

Pictograma



GHS02



GHS05

Palabra de advertencia

PELIGRO

Advertencias de peligro

H260 En contacto con el agua desprende gases inflamables que pueden inflamarse espontáneamente.
H314 Provoca quemaduras graves en la piel y lesiones oculares graves.

Instrucciones de seguridad

Instrucciones de seguridad - Prevención

P280 Llevar guantes/ prendas/ gafas/ máscara de protección.

Instrucciones de seguridad – Reacción

P301+P330+P331 EN CASO DE INGESTIÓN: Enjuagar la boca. NO provocar el vómito.
P305 + P351 + P338 EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar les lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.
P370 + P378 En caso de incendio: Utilice polvo metálico para extinguir el fuego – NO utilice agua.
P308+P311 EN CASO DE exposición manifiesta o presunta: Llamar a un CENTRO DE TOXICOLOGÍA/ médico/...

Declaración(es) de prudencia

P402 + P404 Almacenar en un lugar seco. Almacenar en un recipiente scerrado.

Información suplementaria sobre riesgos

EUH014 Reacciona violentamente con el agua.

2.3. Otros Peligros

Resultados de la valoración PBT y mPmB

Según los resultados de su evaluación, esta sustancia no es PBT ni mPmB.

Propiedades de alteración endocrina

No contiene un alterador endocrino (ED) a una concentración $\geq 0,1\%$.

SECCIÓN 3. Composición/información sobre los componentes

3.1. Sustancias: Sodio, elemento químico, metal

Formula: Na
Peso molecular: 22,99 g/mol
No. CAS: 7440-23-5
No. CE: 231-132-9
No. Indice: 011-001-00-0

3.2. Mezclas: no aplicable.



SECCIÓN 4. Primeros auxilios



4.1. Descripción de los primeros auxilios

Recomendaciones generales	Consultar a un médico. Mostrar esta ficha de seguridad al doctor que esté de servicio.
Si es inhalado	Si aspiró, mueva la persona al aire fresco. Si ha parado de respirar, hacer la respiración artificial. Consultar a un médico.
En caso de contacto con la piel	Quítese inmediatamente la ropa y zapatos contaminados. Eliminar lavando con jabón y mucha agua. Consultar a un médico.
En caso de contacto con los ojos:	Retirar inmediatamente el metal con cuidado. Quitar las lentes de contacto. A continuación A continuación, enjuagar abundantemente con agua con los párpados abiertos y seguir enjuagando hasta que llegue el médico.
Tras ingestión:	NO forzar el vómito. Enjuagar la boca. Dar de beber abundante agua; consultar inmediatamente al médico.
Consejo para el médico:	Tratar como para las quemaduras cáusticas. Mostrar al médico la ficha de datos de seguridad.

4.2. Principales síntomas y efectos, agudos y retardados

Síntomas:	La ingestión puede causar los siguientes síntomas: Ardor, Dolor, Diarrea, Vómitos, Bajada de tensión, Problemas respiratorios, Los síntomas pueden retrasarse.
	La inhalación puede causar los siguientes síntomas: Irritación del sistema respiratorio, alteración de la función pulmonar o dificultad para respirar.
	El contacto con la piel puede causar los siguientes síntomas Ardor
	El contacto con los ojos puede causar los siguientes síntomas Quemaduras

4.3. Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse Inmediatamente

Tras la ingestión, puede producirse una disrupción retardada o un estrechamiento del tracto gastrointestinal. Se recomienda una estrecha vigilancia.

SECCIÓN 5: Medidas de lucha contra incendios

5.1. agentes extintores adecuados:

Polvo para quemar metales clase D, sal de mesa seca, arena seca, cemento

Agentes extintores inadecuados:

Agua, CO2, agentes extintores para las clases de fuego A, B, C y E.



5.2. Peligros específicos derivados de la sustancia o la mezcla

El producto libera gas hidrógeno al entrar en contacto con el agua.

5.3. Recomendaciones para el personal de lucha contra incendios

mantenerse alejado de fuentes de ignición debido a la posible formación de hidrógeno;
Nunca inhale humo; Peligro de quemaduras químicas en las mucosas.
Mueva inmediatamente a las personas hacia un lado alejado del viento.
En caso de incendio, protección respiratoria independiente del aire circulante contra sustancias corrosivas.
Humo de óxido. Utilice un traje de protección química completo.

SECCIÓN 6. Medidas en caso de vertido accidental

6.1. Precauciones personales, equipo de protección y procedimientos de emergencia

6.1.1 Personal capacitado que no es de emergencia

Uso de equipo de protección apropiado (incluidos los especificados en la Sección 8 de la ficha de datos de seguridad) para evitar la Contaminación de piel, ojos y ropa personal.
Evite el contacto con la piel, los ojos y la ropa.

6.1.2. servicios de emergencia

Utilice equipo de protección personal (por ejemplo, Nomex). Evite la formación de polvo.
Evite respirar el polvo. Asegúrese de que haya una ventilación adecuada.
Eliminar todas las fuentes de ignición. Evacuar al personal a zonas seguras.

6.2. Precauciones relativas al medio ambiente

Penetración en desagües o superficie y Prevenir las aguas subterráneas. Peligro de explosión.

6.3. Métodos y material de contención y de limpieza

6.3.1 Instrucciones sobre cómo se puede evitar que se propaguen los materiales derramados

Cubriendo las alcantarillas.

6.3.2 Instrucciones de limpieza en caso de derrame

Grabar mecánicamente. Evitando la generación de polvo. Eliminar en contenedores adecuados.

6.3.3 Información adicional sobre derrames y liberaciones

Nunca uses agua.

6.4. Referencia a otras secciones

Productos de combustión peligrosos: véase la sección 5. Equipo de protección personal: véase la sección 8. Materiales incompatibles: véase la sección 10.
Consideraciones relativas a la eliminación: véase la sección 13.

SECCIÓN 7. Manipulación y almacenamiento

7.1. Precauciones para una manipulación segura

Abra y manipule el recipiente con precaución. Almacene el sodio envasado en aceite de parafina, nitrógeno o argón. Proteger de la humedad y mantener siempre los envases bien cerrados. El área de trabajo debe estar bien ventilada. Lavarse las manos antes de

los descansos y al finalizar el trabajo. Mantener alejado de alimentos y bebidas. No fumes en el trabajo.

7.2. Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades

Requisitos para almacenes y contenedores:

seco, sin sistema de rociadores, Nivel del suelo elevado en comparación con el entorno
Requisitos para condiciones de almacenamiento según WGK: 1

Instrucciones de almacenamiento:

Según la clase de almacenamiento 4.3 (sustancias que forman gases inflamables en contacto con el agua) Observar las prohibiciones de almacenamiento común. No almacenar junto con líquidos fácilmente inflamables.

Indicaciones adicionales sobre las condiciones de almacenamiento

Temperatura de almacenamiento recomendada: 10 °C - 30° C

7.3. Usos específicos finales No hay información disponible.

SECCIÓN 8. Controles de exposición/protección individual

8.1. Parámetros de control

No se dispone de información sobre los valores límite de exposición ocupacional (valores límite en el lugar de trabajo).

8.2. Controles de la exposición

Equipos de protección individual



Medidas generales de protección e higiene:

Evitar el contacto con los ojos y la piel. No comer, beber ni fumar durante el trabajo. Prestar atención a la sequedad.

Protección respiratoria:

Por regla general, no se requieren medidas de protección especiales.
En situaciones excepcionales (por ejemplo, liberación involuntaria de la sustancia) es necesario llevar protección respiratoria.

Protección de las manos:

Llevar guantes de protección adecuados. Los guantes adecuados son los probados según Los guantes de protección química probados según EN 374 son adecuados. Comprobar la estanqueidad/impermeabilidad antes del uso. Se recomienda comprobar la resistencia química de los guantes de protección mencionados para aplicaciones especiales con el fabricante de los guantes con el fabricante de guantes.

- **Tipo de material:** NBR (caucho nitrílico)

- **Grosor del material:** >0,11 mm.

- **Tiempo de penetración:** >480 minutos (nivel de permeación: 6)



- Otras medidas de protección: Permitir fases de recuperación para la regeneración de la piel. Protección preventiva de la piel (cremas/ungüentos protectores).

Protección de los ojos:

Gafas de montura con protección lateral.

Si no sólo están en peligro los ojos, sino también la cara debe utilizarse también una pantalla protectora.

Protección del cuerpo:

Generalmente ropa de protección ignífuga.

Se requiere ropa de protección especial cuando se trabaja con grandes cantidades de sodio; lista de fabricantes disponible a petición.

Limitación y control de la exposición ambiental:

Evitar que penetre en la red de alcantarillado o en las aguas superficiales y subterráneas. Aguas subterráneas. Peligro de explosión.

SECCIÓN 9. Propiedades físicas y químicas

9.1. Información sobre propiedades físicas y químicas básicas

a) Estado físico	sólido
b) Color	gris
c) Odor	inodoro
d) Punto de fusión:	97,85 °C
e) Punto inicial de ebullición e intervalo de ebullición	892 °C
p) Densidad relativa	0,97 g/cm ³

9.2. Otros datos no

SECCIÓN 10. Estabilidad y reactividad

10.1. Reactividad: véase sección 10.3

10.2. Estabilidad química: sensible a la humedad. Estabilizador: aceite de parafina.

10.3. Posibilidad de reacciones peligrosas

Riesgo de explosión e ignición o formación de gases o vapores inflamables con gases o vapores inflamables con:

Agua, alcoholes, haluros de aluminio, compuestos de amonio, sales metálicas, compuestos de boro, bromo, azidas, hidrocarburos halogenados, organ. halogenuros, cloro, cloratos, cloroformo, cloruro de hidrógeno gaseoso, óxido de cromo (VI), diclorometano, éter, dimetilformamida, óxidos halogenados, etanol, metanol, nitratos de alquilo, nitritos, flúor, halógenos, hidracinas, hidrato de hidracina, hidroxilamina, yodo, compuestos halógeno-halógenos, peróxidos, carbón activado, monóxido de carbono, compuestos de cobre, óxidos metálicos, compuestos nitro orgánicos, sales de metales pesados, percloratos, haluros de fósforo, óxidos de fósforo, compuestos de silicio, compuestos de plata, selenio, dióxido de azufre, disulfuro de carbono, sulfuro de hidrógeno, azufre, cloruros ácidos, oxígeno, ácido clorhídrico, ácido nítrico, compuestos de mercurio, mercurio, dióxido de nitrógeno..

10.4. Condiciones que deben evitarse: Proteger de la humedad

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10.5. Materiales incompatibles: ver sección 10.3

10.6. Productos de descomposición peligrosos: ver sección 5

SECCIÓN 11. Información toxicológica

11.1. Información sobre las clases de peligro definidas en el Reglamento (CE) n.o 1272/2008

a) Toxicidad aguda

por inhalación: irritación de mucosas, tos, dificultad para respirar, posibles consecuencias:
Daño al tracto respiratorio. Toxicidad oral aguda: Si se ingiere, efecto corrosivo severo en la boca y garganta y riesgo de perforación del esófago y estómago.

- b) corrosión o irritación cutáneas; Efecto corrosivo sobre la piel y las mucosas.
- c) lesiones oculares graves o irritación ocular: Fuerte efecto corrosivo.
Provoca daños oculares graves
- d) Sensibilización respiratoria o cutánea; No se conocen efectos sensibilizantes.
- e) Mutagenicidad en células germinales: No hay información disponible.
- f) Carcinogenicidad: No hay información disponible.
- g) Toxicidad para la reproducción: No hay información disponible.
- h) Toxicidad específica en determinados órganos (STOT)-tras exposición única:
No hay información disponible.
- i) Toxicidad específica en determinados órganos (STOT)-tras exposiciones repetidas:
No hay información disponible.
- j) Peligro por aspiración: No hay información disponible.

11.2. Información relativa a otros peligros

11.2.1 Propiedades de alteración endocrina

No contiene disruptor endocrino (DE) en una concentración $\geq 0,1\%$.

11.2.2 Otra información

Descomposición de la sustancia con la humedad de los tejidos. Deben observarse las medidas de precaución habituales para la manipulación de productos químicos.

SECCIÓN 12. Información ecológica

- 12.1. Toxicidad** No hay información disponible.
- 12.2. Persistencia y degradabilidad** No hay información disponible.
- 12.3. Potencial de bioacumulación** No hay información disponible.
- 12.4. Movilidad en el suelo** No hay información disponible.
- 12.5. Resultados de la valoración PBT y mPmB** PBT/mPmB: No aplicable a las sustancias inorgánicas.
- 12.6. Propiedades de alteración endocrina** No contiene disruptor endocrino (DE) en una concentración $\geq 0,1\%$.
- 12.7. Otros efectos adversos** La reacción con el agua da lugar a sosa cáustica:
Nivel de riesgo para el agua 1: poco peligroso para el agua

SECCIÓN 13. Consideraciones relativas a la eliminación

13.1. Métodos para el tratamiento de residuos

Eliminación / residuos (producto)
Recoger grandes cantidades de sodio

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en un recipiente con disolvente inerte o bajo gas inerte (por ejemplo, nitrógeno).

Verter cuidadosamente pequeñas cantidades de sodio

en pequeñas porciones en alcoholes de bajo punto de ebullición, por ejemplo butanol (exceso) añadir. Destruir el alcoholato resultante añadiendo lentamente añadiendo lentamente agua.

Tipo de eliminación

Planta incineradora

Obligación de presentar pruebas

sí

Devolver el producto no utilizado

en un envase intacto al fabricante/proveedor.
fabricante/proveedor

Envase:

Lavar cuidadosamente el envase

sin limpiar con isopropanol y después con agua.
No dejar que penetre en las vías fluviales o en el alcantarillado.

Envases vacíos:

basura doméstica o a empresas de reciclaje

Otra información

El código de seis dígitos del residuo debe clasificarse según AVV,
tipo de proceso, origen o tipo de residuo.
a asignar.
Eliminar de acuerdo con la normativa federal, estatal y local.
Observar la Directiva sobre residuos 2008/98/CE.

SECCIÓN 14. Información relativa al transporte

14.1. Número ONU o número ID

UN1428

14.2. Designación oficial de transporte de las Naciones Unidas

ADR/RID/ADN

NATRIUM

IMDG-Code

SODIUM

ICAO-TI

Sodium

14.3. Clase(s) de peligro para el transporte

4.3

14.4. Grupo de embalaje

I

14.5. Peligros para el medio ambiente

No es peligroso para el medio ambiente según la normativa sobre mercancías peligrosas

14.6. Precauciones particulares para los usuarios

Debe respetarse siempre la normativa sobre mercancías peligrosas (ADR)

14.7. Transporte marítimo a granel con arreglo a los instrumentos de la OMI

La carga no se transporta a granel.

Transporte terrestre ADR/RID/GGVSE:

ADR/RID-GGVS/E Clase:

4.3 (W2) Sustancias que, en contacto con el agua, desprenden gases inflamables

Número Kemler:

X423

Número ONU:

1428



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Grupo de embalaje: I
Etiqueta de peligro: 4.3
Descripción de la mercancía: 1428 Sodio
Cantidad limitada (LQ): LQ0
Categoría de transporte: 1
Código de restricción del túnel: B/E

Transporte marítimo IMDG/GGVSee:



IMDG/GGVSee clase: 4.3
Número ONU: 1428
Etiqueta de peligro: 4.3
Grupo de embalaje: I
Nombre técnico correcto: SODIUM
EMS: F-G S-N

Transporte aéreo ICAO-TI e IATA-DGR:



Clase ICAO/IATA: 4.3
Número UN/ID: 1428
Grupo de embalaje: I
Nombre técnico correcto: SODIUM
IATA (Pasajeros): Transporte no autorizado
IATA (Avión de carga): Transporte autorizado
Reglamento tipo de la ONU: UN1428, Sodio, 4.3, I

SECCIÓN 15. Información reglamentaria

15.1 Reglamentación/legislación en materia de seguridad, salud y medio ambiente específica para la sustancia o la mezcla

- Directiva Seveso

2012/18/EU (SevesoIII)			
No.	Sustancia peligrosa/categorías de peligro	Umbral de cantidad (toneladas) para su uso en establecimientos de nivel inferior y superior	Nota
01	otros peligros (EUH014)	100 500	58)
02	otros peligros (react. Agua, cat. 1)	100 500	59)

Nota

58) Sustancias o mezclas con la indicación de peligro EUH014

59) Sustancias y mezclas que, en contacto con el agua, emiten gases inflamables, categoría de peligro 1

Reglamento (CE) nº 1005/2009 sobre sustancias,
sustancias que agotan la capa de ozono: no regulado

Reglamento (CE) nº 850/2004 sobre
contaminantes orgánicos persistentes y
por el que se modifica la Directiva 79/117/CEE: no regulado

Nota sobre las restricciones al empleo:

Restricciones de empleo para los jóvenes atención. Utilizar únicamente por personas técnicamente cualificadas.

Sustancias extremadamente preocupantes (SVHC):



Este producto no contiene sustancias extremadamente preocupantes según el Reglamento REACH CE nº 1907/2006, art. 57 por encima del límite de concentración legal de $\geq 0,1$ % (p/p).

Normativa nacional:

Ficha de información de BG Chemie (en alemán):

M004 Reizende Stoffe/Ätzende Stoffe
M019 Natrium
M050 Tätigkeiten mit Gefahrstoffen

Clase de peligro para el agua: WGK 1 ligeramente peligroso para el agua

Clase de almacenamiento 4.3

No se ha realizado una valoración de la seguridad química de este producto.

15.2. Evaluación de la seguridad química

No se ha realizado una valoración de la seguridad química de este producto para cantidades inferiores a 10 toneladas o más al año por solicitante de registro.

SECCIÓN 16. Otra información

a) Lugares en los que se han introducido cambios con respecto a la versión anterior:

Cap. 2.3 Nueva redacción
Cap. 5.4 y 5.3 resumidos en 5.3
Cap. 5.5 suprimido
Cap. 7.2 título adaptado y texto revisado
Cap. 8.1 y 8.2 Título adaptado y texto revisado
Cap. 9 Lista de normas 2020/8978/UE adaptada
Cap. 10.5 y 10.6 incluidos de nuevo
Cap. 11.2 Texto revisado
Cap. 12.6 y 12.7 nueva redacción
Sección 14 Rediseño de la presentación
Cap. 15.1 Prospecto M019 Sodio añadido
Cap. 16b Leyenda de abreviaturas añadida

b) Leyenda de abreviaturas

ADR Accord relatif au transport international des marchandises dangereuses par route
(Acuerdo relativo al transporte internacional de mercancías peligrosas por carretera)

IATA International Air Transport Association (Asociación Internacional de Transporte Aéreo))

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

ICAO International Civil Aviation Organization (Organización Internacional de Aviación Civil)

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Reglamento (EC) No 1907/2006 del Parlamento y Consejo Europeos con respecto al registro, evaluación autorización y restricción de químicos)

RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (reglamento relativo al transporte internacional de mercancías peligrosas por ferrocarril)

PBT Sustancia persistente, bioacumulativa y tóxica

mPmB Very Persistent and very Bioaccumulative (Muy persistente y muy bioacumulativo)

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c) Referencias bibliográficas

Reglamento (CE) nº 1272/2008 sobre clasificación, etiquetado y envasado de sustancias y mezclas.

Reglamento (CE) nº 1907/2006 (REACH), modificado por 2020/878/UE.

d) Texto íntegro de las Declaraciones-H referidas en las secciones 2 y 3.

Pictograma



Palabra de advertencia

PELIGRO

Advertencias de peligro

H260	En contacto con el agua desprende gases inflamables que pueden inflamarse espontáneamente.
H314	Provoca quemaduras graves en la piel y lesiones oculares graves.
EUH014	Reacciona violentamente con el agua.

Instrucciones de seguridad

Instrucciones de seguridad - Prevención

P280	Llevar guantes/ prendas/ gafas/ máscara de protección.
------	--

Instrucciones de seguridad – Reacción

P301+P330+P331	EN CASO DE INGESTIÓN: Enjuagar la boca. NO provocar el vómito.
P305 + P351 + P338	EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir con agua aclarando.
P370 + P378	En caso de incendio: Utilice polvo metálico para extinguir el fuego – NO utilice agua.
P308+P311	EN CASO DE exposición manifiesta o presunta: Llamar a un CENTRO DE TOXICOLOGÍA/ médico/...

Almacenamiento

P402+P404	Almacenar en un lugar seco. Almacenar en un recipiente cerrado.
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e) Información sobre la formación adecuada de los trabajadores

Proporcione información, instrucciones y formación adecuadas a los usuarios.

Los empresarios deben considerar esta información únicamente como un complemento de sus propias averiguaciones y decidir independientemente sobre su aplicabilidad a fin de garantizar un uso correcto y, por tanto, la salud y seguridad de sus empleados. Esta información no constituye una garantía legal y cualquier uso del producto distinto al indicado en esta ficha de datos de seguridad, o su uso en combinación con cualquier otro producto o proceso, es responsabilidad exclusiva del usuario. producto o proceso es responsabilidad exclusiva del usuario.

La información anterior se basa en nuestros conocimientos y experiencia actuales y no constituye una garantía de propiedades.

El destinatario de nuestro producto es responsable de observar las leyes y reglamentos vigentes.

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

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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](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-GGVSE 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
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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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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

1.2 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-GGVS/E 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.



Ficha de datos de seguridad

SECCIÓN 1. Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1. Identificador del producto

Nombre del producto :

BINAL®

REACH No : 01-2119484805-27-0002

1.2. Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

Usos identificados : Producción química, metalurgia, refinado de plomo, agente de refinado para la fundición de aluminio, producción de poliamida12, tratamiento o grabado de plásticos fluorados, deshalogenación y desulfuración de aceite mineral, como agente reductor en síntesis química. plásticos, deshalogenación y desulfuración de aceites minerales, como agente reductor en síntesis química

Usos desaconsejados : todas las aplicaciones no industriales y no relacionadas con la Investigación

1.3. Datos del proveedor de la ficha de datos de seguridad

Compañía : Dr. Bilger Umweltconsulting GmbH
Gewerbepark Birkenhain 7a
D-63579 Freigericht
Teléfono : +49 (0)6051-91669-51
E-mail de contacto : info@bilgergmbh.de

1.4. Teléfono de emergencia

Tel.: +49-(0)6051-91669-51
Este número sólo está disponible en horario de oficina.

Teléfono de Urgencia : Giftinformation **München: +49/ (0)89 19240**

SECCIÓN 2: Identificación de los peligros

2.1. Clasificación de la sustancia o de la mezcla

Clasificación de acuerdo con el Reglamento (CE) 1272/2008	
Clase/categoría de peligro	Indicación de peligro
En contacto con el agua desprende gases inflamables que pueden inflamarse espontáneamente.	H260
Provoca quemaduras graves en la piel y lesiones oculares graves	H314

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2.2. Elementos de la etiqueta

Pictograma



GHS02



GHS05

Palabra de advertencia

PELIGRO

Advertencias de peligro

H260 En contacto con el agua desprende gases inflamables que pueden inflamarse espontáneamente.
H314 Provoca quemaduras graves en la piel y lesiones oculares graves.

Instrucciones de seguridad

Instrucciones de seguridad - Prevención

P280 Llevar guantes/ prendas/ gafas/ máscara de protección.

Instrucciones de seguridad – Reacción

P301+P330+P331 EN CASO DE INGESTIÓN: Enjuagar la boca. NO provocar el vómito.
P305 + P351 + P338 EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar les lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.
P370 + P378 En caso de incendio: Utilice polvo metálico para extinguir el fuego – NO utilice agua.
P308+P311 EN CASO DE exposición manifiesta o presunta: Llamar a un CENTRO DE TOXICOLOGÍA/ médico/...

Declaración(es) de prudencia

P402 + P404 Almacenar en un lugar seco. Almacenar en un recipiente scerrado.

Información suplementaria sobre riesgos

EUH014 Reacciona violentamente con el agua.

2.3. Otros Peligros

Resultados de la valoración PBT y mPmB

Según los resultados de su evaluación, esta sustancia no es PBT ni mPmB.

Propiedades de alteración endocrina

No contiene un alterador endocrino (ED) a una concentración $\geq 0,1\%$.

SECCIÓN 3. Composición/información sobre los componentes

3.1. Sustancias: Sodio, elemento químico, metal

Formula: Na
Peso molecular: 22,99 g/mol
No. CAS: 7440-23-5
No. CE: 231-132-9
No. Indice: 011-001-00-0

3.2. Mezclas: no aplicable.



SECCIÓN 4. Primeros auxilios



4.1. Descripción de los primeros auxilios

Recomendaciones generales	Consultar a un médico. Mostrar esta ficha de seguridad al doctor que esté de servicio.
Si es inhalado	Si aspiró, mueva la persona al aire fresco. Si ha parado de respirar, hacer la respiración artificial. Consultar a un médico.
En caso de contacto con la piel	Quítese inmediatamente la ropa y zapatos contaminados. Eliminar lavando con jabón y mucha agua. Consultar a un médico.
En caso de contacto con los ojos:	Retirar inmediatamente el metal con cuidado. Quitar las lentes de contacto. A continuación A continuación, enjuagar abundantemente con agua con los párpados abiertos y seguir enjuagando hasta que llegue el médico.
Tras ingestión:	NO forzar el vómito. Enjuagar la boca. Dar de beber abundante agua; consultar inmediatamente al médico.
Consejo para el médico:	Tratar como para las quemaduras cáusticas. Mostrar al médico la ficha de datos de seguridad.

4.2. Principales síntomas y efectos, agudos y retardados

Síntomas:	La ingestión puede causar los siguientes síntomas: Ardor, Dolor, Diarrea, Vómitos, Bajada de tensión, Problemas respiratorios, Los síntomas pueden retrasarse.
	La inhalación puede causar los siguientes síntomas: Irritación del sistema respiratorio, alteración de la función pulmonar o dificultad para respirar.
	El contacto con la piel puede causar los siguientes síntomas Ardor
	El contacto con los ojos puede causar los siguientes síntomas Quemaduras

4.3. Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse Inmediatamente

Tras la ingestión, puede producirse una disrupción retardada o un estrechamiento del tracto gastrointestinal. Se recomienda una estrecha vigilancia.

SECCIÓN 5: Medidas de lucha contra incendios

5.1. agentes extintores adecuados:

Polvo para quemar metales clase D, sal de mesa seca, arena seca, cemento

Agentes extintores inadecuados:

Agua, CO₂, agentes extintores para las clases de fuego A, B, C y E.



5.2. Peligros específicos derivados de la sustancia o la mezcla

El producto libera gas hidrógeno al entrar en contacto con el agua.

5.3. Recomendaciones para el personal de lucha contra incendios

mantenerse alejado de fuentes de ignición debido a la posible formación de hidrógeno;
Nunca inhale humo; Peligro de quemaduras químicas en las mucosas.
Mueva inmediatamente a las personas hacia un lado alejado del viento.
En caso de incendio, protección respiratoria independiente del aire circulante contra sustancias corrosivas.
Humo de óxido. Utilice un traje de protección química completo.

SECCIÓN 6. Medidas en caso de vertido accidental

6.1. Precauciones personales, equipo de protección y procedimientos de emergencia

6.1.1 Personal capacitado que no es de emergencia

Uso de equipo de protección apropiado (incluidos los especificados en la Sección 8 de la ficha de datos de seguridad) para evitar la Contaminación de piel, ojos y ropa personal.
Evite el contacto con la piel, los ojos y la ropa.

6.1.2. servicios de emergencia

Utilice equipo de protección personal (por ejemplo, Nomex). Evite la formación de polvo.
Evite respirar el polvo. Asegúrese de que haya una ventilación adecuada.
Eliminar todas las fuentes de ignición. Evacuar al personal a zonas seguras.

6.2. Precauciones relativas al medio ambiente

Penetración en desagües o superficie y Prevenir las aguas subterráneas. Peligro de explosión.

6.3. Métodos y material de contención y de limpieza

6.3.1 Instrucciones sobre cómo se puede evitar que se propaguen los materiales derramados

Cubriendo las alcantarillas.

6.3.2 Instrucciones de limpieza en caso de derrame

Grabar mecánicamente. Evitando la generación de polvo. Eliminar en contenedores adecuados.

6.3.3 Información adicional sobre derrames y liberaciones

Nunca uses agua.

6.4. Referencia a otras secciones

Productos de combustión peligrosos: véase la sección 5. Equipo de protección personal: véase la sección 8. Materiales incompatibles: véase la sección 10.
Consideraciones relativas a la eliminación: véase la sección 13.

SECCIÓN 7. Manipulación y almacenamiento

7.1. Precauciones para una manipulación segura

Abra y manipule el recipiente con precaución. Almacene el sodio envasado en aceite de parafina, nitrógeno o argón. Proteger de la humedad y mantener siempre los envases bien cerrados. El área de trabajo debe estar bien ventilada. Lavarse las manos antes de

los descansos y al finalizar el trabajo. Mantener alejado de alimentos y bebidas. No fumes en el trabajo.

7.2. Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades

Requisitos para almacenes y contenedores:

seco, sin sistema de rociadores, Nivel del suelo elevado en comparación con el entorno
Requisitos para condiciones de almacenamiento según WGK: 1

Instrucciones de almacenamiento:

Según la clase de almacenamiento 4.3 (sustancias que forman gases inflamables en contacto con el agua) Observar las prohibiciones de almacenamiento común. No almacenar junto con líquidos fácilmente inflamables.

Indicaciones adicionales sobre las condiciones de almacenamiento

Temperatura de almacenamiento recomendada: 10 °C - 30° C

7.3. Usos específicos finales No hay información disponible.

SECCIÓN 8. Controles de exposición/protección individual

8.1. Parámetros de control

No se dispone de información sobre los valores límite de exposición ocupacional (valores límite en el lugar de trabajo).

8.2. Controles de la exposición

Equipos de protección individual



Medidas generales de protección e higiene:

Evitar el contacto con los ojos y la piel. No comer, beber ni fumar durante el trabajo. Prestar atención a la sequedad.

Protección respiratoria:

Por regla general, no se requieren medidas de protección especiales.
En situaciones excepcionales (por ejemplo, liberación involuntaria de la sustancia) es necesario llevar protección respiratoria.

Protección de las manos:

Llevar guantes de protección adecuados. Los guantes adecuados son los probados según Los guantes de protección química probados según EN 374 son adecuados. Comprobar la estanqueidad/impermeabilidad antes del uso. Se recomienda comprobar la resistencia química de los guantes de protección mencionados para aplicaciones especiales con el fabricante de los guantes con el fabricante de guantes.

- **Tipo de material:** NBR (caucho nitrílico)

- **Grosor del material:** >0,11 mm.

- **Tiempo de penetración:** >480 minutos (nivel de permeación: 6)



- Otras medidas de protección: Permitir fases de recuperación para la regeneración de la piel. Protección preventiva de la piel (cremas/ungüentos protectores).

Protección de los ojos:

Gafas de montura con protección lateral.

Si no sólo están en peligro los ojos, sino también la cara debe utilizarse también una pantalla protectora.

Protección del cuerpo:

Generalmente ropa de protección ignífuga.

Se requiere ropa de protección especial cuando se trabaja con grandes cantidades de sodio; lista de fabricantes disponible a petición.

Limitación y control de la exposición ambiental:

Evitar que penetre en la red de alcantarillado o en las aguas superficiales y subterráneas. Aguas subterráneas. Peligro de explosión.

SECCIÓN 9. Propiedades físicas y químicas

9.1. Información sobre propiedades físicas y químicas básicas

a) Estado físico	sólido
b) Color	gris
c) Odor	inodoro
d) Punto de fusión:	97,85 °C
e) Punto inicial de ebullición e intervalo de ebullición	892 °C
p) Densidad relativa	0,97 g/cm ³

9.2. Otros datos no

SECCIÓN 10. Estabilidad y reactividad

10.1. Reactividad: véase sección 10.3

10.2. Estabilidad química: sensible a la humedad. Estabilizador: aceite de parafina.

10.3. Posibilidad de reacciones peligrosas

Riesgo de explosión e ignición o formación de gases o vapores inflamables con gases o vapores inflamables con:

Agua, alcoholes, haluros de aluminio, compuestos de amonio, sales metálicas, compuestos de boro, bromo, azidas, hidrocarburos halogenados, organ. halogenuros, cloro, cloratos, cloroformo, cloruro de hidrógeno gaseoso, óxido de cromo (VI), diclorometano, éter, dimetilformamida, óxidos halogenados, etanol, metanol, nitratos de alquilo, nitritos, flúor, halógenos, hidracinas, hidrato de hidracina, hidroxilamina, yodo, compuestos halógeno-halógenos, peróxidos, carbón activado, monóxido de carbono, compuestos de cobre, óxidos metálicos, compuestos nitro orgánicos, sales de metales pesados, percloratos, haluros de fósforo, óxidos de fósforo, compuestos de silicio, compuestos de plata, selenio, dióxido de azufre, disulfuro de carbono, sulfuro de hidrógeno, azufre, cloruros ácidos, oxígeno, ácido clorhídrico, ácido nítrico, compuestos de mercurio, mercurio, dióxido de nitrógeno..

10.4. Condiciones que deben evitarse: Proteger de la humedad

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10.5. Materiales incompatibles: ver sección 10.3

10.6. Productos de descomposición peligrosos: ver sección 5

SECCIÓN 11. Información toxicológica

11.1. Información sobre las clases de peligro definidas en el Reglamento (CE) n.o 1272/2008

a) Toxicidad aguda

por inhalación: irritación de mucosas, tos, dificultad para respirar, posibles consecuencias:
Daño al tracto respiratorio. Toxicidad oral aguda: Si se ingiere, efecto corrosivo severo en la boca y garganta y riesgo de perforación del esófago y estómago.

- b) corrosión o irritación cutáneas; Efecto corrosivo sobre la piel y las mucosas.
- c) lesiones oculares graves o irritación ocular: Fuerte efecto corrosivo.
Provoca daños oculares graves
- d) Sensibilización respiratoria o cutánea; No se conocen efectos sensibilizantes.
- e) Mutagenicidad en células germinales: No hay información disponible.
- f) Carcinogenicidad: No hay información disponible.
- g) Toxicidad para la reproducción: No hay información disponible.
- h) Toxicidad específica en determinados órganos (STOT)-tras exposición única:
No hay información disponible.
- i) Toxicidad específica en determinados órganos (STOT)-tras exposiciones repetidas:
No hay información disponible.
- j) Peligro por aspiración: No hay información disponible.

11.2. Información relativa a otros peligros

11.2.1 Propiedades de alteración endocrina

No contiene disruptor endocrino (DE) en una concentración $\geq 0,1\%$.

11.2.2 Otra información

Descomposición de la sustancia con la humedad de los tejidos. Deben observarse las medidas de precaución habituales para la manipulación de productos químicos.

SECCIÓN 12. Información ecológica

- 12.1. Toxicidad** No hay información disponible.
- 12.2. Persistencia y degradabilidad** No hay información disponible.
- 12.3. Potencial de bioacumulación** No hay información disponible.
- 12.4. Movilidad en el suelo** No hay información disponible.
- 12.5. Resultados de la valoración PBT y mPmB** PBT/mPmB: No aplicable a las sustancias inorgánicas.
- 12.6. Propiedades de alteración endocrina** No contiene disruptor endocrino (DE) en una concentración $\geq 0,1\%$.
- 12.7. Otros efectos adversos** La reacción con el agua da lugar a sosa cáustica:
Nivel de riesgo para el agua 1: poco peligroso para el agua

SECCIÓN 13. Consideraciones relativas a la eliminación

13.1. Métodos para el tratamiento de residuos

Eliminación / residuos (producto)
Recoger grandes cantidades de sodio

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en un recipiente con disolvente inerte o bajo gas inerte (por ejemplo, nitrógeno).

Verter cuidadosamente pequeñas cantidades de sodio

en pequeñas porciones en alcoholes de bajo punto de ebullición, por ejemplo butanol (exceso) añadir. Destruir el alcoholato resultante añadiendo lentamente añadiendo lentamente agua.

Tipo de eliminación

Planta incineradora

Obligación de presentar pruebas

sí

Devolver el producto no utilizado

en un envase intacto al fabricante/proveedor.
fabricante/proveedor

Envase:

Lavar cuidadosamente el envase

sin limpiar con isopropanol y después con agua.
No dejar que penetre en las vías fluviales o en el alcantarillado.

Envases vacíos:

basura doméstica o a empresas de reciclaje

Otra información

El código de seis dígitos del residuo debe clasificarse según AVV,
tipo de proceso, origen o tipo de residuo.
a asignar.
Eliminar de acuerdo con la normativa federal, estatal y local.
Observar la Directiva sobre residuos 2008/98/CE.

SECCIÓN 14. Información relativa al transporte

14.1. Número ONU o número ID

UN1428

14.2. Designación oficial de transporte de las Naciones Unidas

ADR/RID/ADN

NATRIUM

IMDG-Code

SODIUM

ICAO-TI

Sodium

14.3. Clase(s) de peligro para el transporte

4.3

14.4. Grupo de embalaje

I

14.5. Peligros para el medio ambiente

No es peligroso para el medio ambiente según la normativa sobre mercancías peligrosas

14.6. Precauciones particulares para los usuarios

Debe respetarse siempre la normativa sobre mercancías peligrosas (ADR)

14.7. Transporte marítimo a granel con arreglo a los instrumentos de la OMI

La carga no se transporta a granel.

Transporte terrestre ADR/RID/GGVSE:

ADR/RID-GGVS/E Clase:

4.3 (W2) Sustancias que, en contacto con el agua, desprenden gases inflamables

Número Kemler:

X423

Número ONU:

1428



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Grupo de embalaje: I
Etiqueta de peligro: 4.3
Descripción de la mercancía: 1428 Sodio
Cantidad limitada (LQ): LQ0
Categoría de transporte: 1
Código de restricción del túnel: B/E

Transporte marítimo IMDG/GGVSee:



IMDG/GGVSee clase: 4.3
Número ONU: 1428
Etiqueta de peligro: 4.3
Grupo de embalaje: I
Nombre técnico correcto: SODIUM
EMS: F-G S-N

Transporte aéreo ICAO-TI e IATA-DGR:



Clase ICAO/IATA: 4.3
Número UN/ID: 1428
Grupo de embalaje: I
Nombre técnico correcto: SODIUM
IATA (Pasajeros): Transporte no autorizado
IATA (Avión de carga): Transporte autorizado
Reglamento tipo de la ONU: UN1428, Sodio, 4.3, I

SECCIÓN 15. Información reglamentaria

15.1 Reglamentación/legislación en materia de seguridad, salud y medio ambiente específica para la sustancia o la mezcla

- Directiva Seveso

2012/18/EU (SevesoIII)			
No.	Sustancia peligrosa/categorías de peligro	Umbral de cantidad (toneladas) para su uso en establecimientos de nivel inferior y superior	Nota
01	otros peligros (EUH014)	100 500	58)
02	otros peligros (react. Agua, cat. 1)	100 500	59)

Nota

58) Sustancias o mezclas con la indicación de peligro EUH014

59) Sustancias y mezclas que, en contacto con el agua, emiten gases inflamables, categoría de peligro 1

Reglamento (CE) nº 1005/2009 sobre sustancias,
sustancias que agotan la capa de ozono: no regulado

Reglamento (CE) nº 850/2004 sobre
contaminantes orgánicos persistentes y
por el que se modifica la Directiva 79/117/CEE: no regulado

Nota sobre las restricciones al empleo:

Restricciones de empleo para los jóvenes atención. Utilizar únicamente por personas técnicamente cualificadas.

Sustancias extremadamente preocupantes (SVHC):



Este producto no contiene sustancias extremadamente preocupantes según el Reglamento REACH CE nº 1907/2006, art. 57 por encima del límite de concentración legal de $\geq 0,1$ % (p/p).

Normativa nacional:

Ficha de información de BG Chemie (en alemán):

M004 Reizende Stoffe/Ätzende Stoffe
M019 Natrium
M050 Tätigkeiten mit Gefahrstoffen

Clase de peligro para el agua: WGK 1 ligeramente peligroso para el agua

Clase de almacenamiento 4.3

No se ha realizado una valoración de la seguridad química de este producto.

15.2. Evaluación de la seguridad química

No se ha realizado una valoración de la seguridad química de este producto para cantidades inferiores a 10 toneladas o más al año por solicitante de registro.

SECCIÓN 16. Otra información

a) Lugares en los que se han introducido cambios con respecto a la versión anterior:

Cap. 2.3 Nueva redacción
Cap. 5.4 y 5.3 resumidos en 5.3
Cap. 5.5 suprimido
Cap. 7.2 título adaptado y texto revisado
Cap. 8.1 y 8.2 Título adaptado y texto revisado
Cap. 9 Lista de normas 2020/8978/UE adaptada
Cap. 10.5 y 10.6 incluidos de nuevo
Cap. 11.2 Texto revisado
Cap. 12.6 y 12.7 nueva redacción
Sección 14 Rediseño de la presentación
Cap. 15.1 Prospecto M019 Sodio añadido
Cap. 16b Leyenda de abreviaturas añadida

b) Leyenda de abreviaturas

ADR Accord relatif au transport international des marchandises dangereuses par route
(Acuerdo relativo al transporte internacional de mercancías peligrosas por carretera)

IATA International Air Transport Association (Asociación Internacional de Transporte Aéreo))

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

ICAO International Civil Aviation Organization (Organización Internacional de Aviación Civil)

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Reglamento (EC) No 1907/2006 del Parlamento y Consejo Europeos con respecto al registro, evaluación autorización y restricción de químicos)

RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (reglamento relativo al transporte internacional de mercancías peligrosas por ferrocarril)

PBT Sustancia persistente, bioacumulativa y tóxica

mPmB Very Persistent and very Bioaccumulative (Muy persistente y muy bioacumulativo)

Ficha de datos de seguridad conforme a la directiva
1907/2006 (Reach) modificado con 2020/878/UE
preparado: 15.01.2009
revisado: 14.08.2024



Dr. Bilger Umweltconsulting GmbH

Producto: BINAL

Versión: 2.0 /ES sustituye la versión 1.0 / ES

Página 11 de 11

c) Referencias bibliográficas

Reglamento (CE) nº 1272/2008 sobre clasificación, etiquetado y envasado de sustancias y mezclas.

Reglamento (CE) nº 1907/2006 (REACH), modificado por 2020/878/UE.

d) Texto íntegro de las Declaraciones-H referidas en las secciones 2 y 3.

Pictograma



Palabra de advertencia

PELIGRO

Advertencias de peligro

H260	En contacto con el agua desprende gases inflamables que pueden inflamarse espontáneamente.
H314	Provoca quemaduras graves en la piel y lesiones oculares graves.
EUH014	Reacciona violentamente con el agua.

Instrucciones de seguridad

Instrucciones de seguridad - Prevención

P280	Llevar guantes/ prendas/ gafas/ máscara de protección.
------	--

Instrucciones de seguridad – Reacción

P301+P330+P331	EN CASO DE INGESTIÓN: Enjuagar la boca. NO provocar el vómito.
P305 + P351 + P338	EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir con agua aclarando.
P370 + P378	En caso de incendio: Utilice polvo metálico para extinguir el fuego – NO utilice agua.
P308+P311	EN CASO DE exposición manifiesta o presunta: Llamar a un CENTRO DE TOXICOLOGÍA/ médico/...

Almacenamiento

P402+P404	Almacenar en un lugar seco. Almacenar en un recipiente cerrado.
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e) Información sobre la formación adecuada de los trabajadores

Proporcione información, instrucciones y formación adecuadas a los usuarios.

Los empresarios deben considerar esta información únicamente como un complemento de sus propias averiguaciones y decidir independientemente sobre su aplicabilidad a fin de garantizar un uso correcto y, por tanto, la salud y seguridad de sus empleados. Esta información no constituye una garantía legal y cualquier uso del producto distinto al indicado en esta ficha de datos de seguridad, o su uso en combinación con cualquier otro producto o proceso, es responsabilidad exclusiva del usuario. producto o proceso es responsabilidad exclusiva del usuario.

La información anterior se basa en nuestros conocimientos y experiencia actuales y no constituye una garantía de propiedades.

El destinatario de nuestro producto es responsable de observar las leyes y reglamentos vigentes.

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

Dr. Bilger Umweltconsulting GmbH
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Druckdatum: 13.05.2016
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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 Lidsplatt 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 FREIGERICHT
GERMANY

B/L No.
VER285829



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

6/09/BRE/526001

Copy

		Place of receipt FREIGERICHT-BERNBACH	
Ocean vessel MAERSK DANUBE		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. VER285829 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.: UETU8026092	Quantity of Goods 3 PALLET	Description of Goods 300 KG BINAL143 - SODIUM PIECES, SEALED IN ALUMINIUM COMPOUND FOIL UN 1428 SODIUM, IMO 4.3, I CONTRACT NO.:26.8.6-AS HS-CODE: 28051100	Gross weight, kg. 390,000 Measurement, m ³ 1,613
TOTAL		3 PALLET	390,000 KGS 1,613 CBM

SEAL : B199356

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 12.09.2026

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
EVONIKOPERATIONS GMBH
WERK STEINAU, MAX-WOLF-STRASSE 7
36396 STEINAU A.D. STRASSE, GERMANY
TRANSPORTMANAGEMENT-STN@EVONIK.COM
TEL: +49 6181-59-12468
VAT# DE114138241

B/L No.
VER285865



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

6/09/BRE/5260

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
EMAIL:ANGELICA.CASTANEDA@EVONIK.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
EMAIL:ANGELICA.CASTANEDA@EVONIK.COM

		Place of receipt BREMEN CFS	
Ocean vessel MAERSK DANUBE		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. VER285865 EVONIK OPERATIONS GMBH 3012821463 REWOCOROS AC 101 46528414 MADE IN %COUNTRY OF ORIGIN STOWED INTO CONTAINER NO.: UETU8026092	Quantity of Goods 1 PALLET	Description of Goods REWOCOROS AC 101 HS-CODE: 382499 2 DRUM	Said to contain Gross weight, kg. 458,200 Measurement, m ³ 1,037
		SEAL : B199356	

TOTAL 1 PALLET 458,200 KGS 1,037 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 12.09.2026

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
EVONIKOPERATIONS GMBH
WERK STEINAU, MAX-WOLF-STRASSE 7
36396 STEINAU A.D. STRASSE, GERMANY
TRANSPORTMANAGEMENT-STN@EVONIK.COM
TEL: +49 6181-59-12468
VAT# DE114138241

B/L No.
VER285866



SACO SHIPPING LINE LTD

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

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WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/09/BRE/5260

Copy

Consigned to order of
LESCHACO MEXICANA SA DE CV.
PASEO DE LA NINA 150 TORRE 1519
PISO 12-01, 94298, FRACC.
LAS AMERICAS, BOCA DEL RIO, VER,
MEXICO - RFC: LME980116R15
MAIL: RODOLFO.SANDOVAL@EVONIK.COM

Notify Party and address
LESCHACO MEXICANA SA DE CV.
PASEO DE LA NINA 150 TORRE 1519
PISO 12-01, 94298, FRACC.
LAS AMERICAS, BOCA DEL RIO, VER,
MEXICO - RFC: LME980116R15
MAIL: RODOLFO.SANDOVAL@EVONIK.COM

		Place of receipt BREMEN CFS	
Ocean vessel MAERSK DANUBE		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. VER285866 EVONIK INDUSTRIES DE MEXICO P.O. 46528422 DERMOFEEL SENSOLV MB EVONIK ORDER NO. 3012827206 VERACRUZ / MEXICO	Quantity of Goods 1 PALLET	Description of Goods DERMOFEEL SENSOLV MB HS-CODE: 291590 6 CAN	Said to contain
		Gross weight, kg. 175,800	Measurement, m ³ 0,754

STOWED INTO CONTAINER NO.: UETU8026092

SEAL : B199356

TOTAL **1 PALLET** **175,800 KGS** **0,754 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.

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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 12.09.2026

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.
VER285899



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,
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WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/09/BRE/5260

Copy

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

		Place of receipt BREMEN CFS	
Ocean vessel MAERSK DANUBE		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.	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.

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Place and date of issue
BREMEN 12.09.2026

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
TUNKERS MX NV4263508	2 PALLET	WELDING UNIT + MACHINERY SPARE PARTS HS-CODE: 850152, 848490, 851590 **HSCODE: 850152**		231,000	0,825
TUNKERS MX NV4263547-49		1 0,061 60,000 MACHINERY SPARE PARTS HS-CODE: 850152, 848490, 851590 **HSCODE: 850152**			
STOWED INTO CONTAINER NO.: UETU8026092				SEAL : B199356	
TUNKERS DE MEXICO DN 361058	2 PALLETS	CLAMPING SYSTEMS HS-CODE: 392350, 392690, 730451, 761090, 843139, 847990 **HSCODE: 761090**		437,000	1,469
STOWED INTO CONTAINER NO.: UETU8026092				SEAL : B199356	
TOTAL		4 PALLET		668,000 KGS	2,294 CBM

Shipper
JL LOGISTIC GMBH
HELTORFER STRASSE 4
D 40472 DUESSELDORF
GERMANY
IST-ID-NO: DE812647637

B/L No.
VER285932



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
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WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
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PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/09/BRE/5260

Copy

Consigned to order of

GLADHEIM LOGISTICS S.A. DE C.V.
RIO LERMA 22, PISO 23, INT.A,
CAUHTEMOC CIUDAD DE MEXICO
MEXICO, C.P. 06500
RFC. GLO120509173
AVISOS@GLADHEIMLOGISTICS.COM
PHONE: +52 55 8852 7826

Notify Party and address

GLADHEIM LOGISTICS S.A. DE C.V.
RIO LERMA 22, PISO 23, INT.A,
CAUHTEMOC CIUDAD DE MEXICO
MEXICO, C.P. 06500
RFC. GLO120509173
AVISOS@GLADHEIMLOGISTICS.COM
PHONE: +52 55 8852 7826

Place of receipt
HEILIGENHAUS CFS

Ocean vessel
MAERSK DANUBE

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
LCL / LCL TECNOLOGICA GESELLSCHAFT FUER HIGH TECH MATERIALIEN UND VERFAHREN GMBH PR26-0209 ASTEMO MEXICO, S.A. DE C.V. P/O M301220 BATCH NO. 32951601/1	1 CASE	MASTER ALLOY HS-CODE: 7604 29 10		535,000	0,474

STOWED INTO CONTAINER NO.: UETU8026092

SEAL : B199356

TOTAL **1 CASE** **535,000 KGS** **0,474 CBM**

FREIGHT PREPAID - SHIPPED ON BOARD - EXPRESS RELEASE

All particulars above declared by Merchant

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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

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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 11.09.2026

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 GG/See (IMO-ERKLÄRUNG)
TRANSPORT DOCUMENT FOR DANGEROUS GOODS
(IMO-DANGEROUS GOODS DECLARATION)

Dieses Formular entspricht SOLAS 74, Kapitel VII Regel 4.2; MARPOL 73/78, Anlage III, Regel 5 Absatz 2 und dem IMDG-Code, Kapitel 5.4
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

VER285946_1_1/1

Versender (Name & Anschrift) Shipper (Name & Address) Sudarshan Langelsheim P.L.T GmbH Heubachstraße 7 38685 Langelsheim GERMANY		Rechnungsnummer(s) Reference number(s)			
Empfänger 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 C			
CONTAINER / FAHRZEUG-PACKZERTIFIKAT CONTAINER / VEHICLE PACKING CERTIFICATE		Container-Fahrzeug-Nr.: Container/Vehicle-Nr.:			
ERKLÄRUNG Es wird erklärt, dass das Packen der gefährlichen Güter in die oder auf die Beförderungseinheit gen. 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.		Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory			
AUSFÜHREN FÜR SENDUNGEN IN CONTAINERN ODER FAHRZEUGEN TO BE COMPLETED FOR SHIPMENTS IN CONTAINERS OR VEHICLES		Ort und Datum Place and date			
Schiffsname und Nummer der Reise Ship's name and voyage No.		Unterschrift für den Packeur Signature on behalf of packer			
Ladehafen Port of loading		(Frei für Text, Anweisungen und sonstige Angaben) (Reserved for text, instructions or other matters)			
Ladeplan Part of discharge		Emergency-Contact-Phone / CHEMTREC - Day or Night / Reg. no. CCN200555 Outside continental USA: 703-527-3887 / Within USA: 1-800-424-9300			
UN-Nr. UN-No.	Initial (früherer technischer Name) Proper Shipping Name (Correct technical name)	Klasse/Unter- klasse nach IMO IMO Class/ Subsidiary Class	Verpackungsgruppe Packing group	Markierung der Versandstücke Falls zutreffend, Identifikations-Nummer oder antl. Kennzeichen Marking of packages If applicable, identification or registration number(s) of the Unit	Anzahl und Verp.-Art No. and kind of packages
UN3077	Environmentally hazardous substance solid, n.o.s. (TRIZINCBS/ORTHO- PHOSPHATE)	9	III	HEUCOPHOS ZPA ref #215510	160 paper bags (5M2) of 25 kg net each
IMDG CODE SEGREGATION GROUP: NONE					
Bruttomenge (Volumen/Masse) Gross quantity (volume/mass)		Merkblatt-Nr. für Umwelt-Maßnahmen Ems.-No.		Eigenschaft(en) / Properties Flammpunkt / Flashpoint **	
Nettomenge/Volumen/Masse Net quantity/volume/mass				MARINE POLLUTANT **	
Net Explosivstoffmasse Net explosive mass				Control- and emergency temperature **	
4128 kg gross 4000 kg net		F-A, S-F		MARINE POLLUTANT	
				Güter angeliefert als / Goods delivered as: ☒ Stückgut / Breakbulk cargo ☐ Ladungseinheiten (Unit Loads) ☐ Unfilled cargo ☐ Bulkverpackungen / Bulk packages	
				An der Einheit (Container, Anhänger, Tank, Fahrzeug usw.) Type of unit (container, trailer, tank, vehicle etc.) ☐ offen / open ☒ geschlossen / closed	
				Zutreffendes ankreuzen Insert 'x' in appropriate box Diese Spalte kann bis zur Überschrift für den Einheitscode (einmalig) benutzt werden. (This column may be left empty apart from the heading, in which case insert appropriate description)	
ZUSÄTZLICHE ANGABEN ADDITIONAL INFORMATION Unter bestimmten Umständen sind besondere Angaben/Bescheinigungen erforderlich; siehe IMDG-Code, Kapitel 5.4 (siehe Rückseite). 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 festgelegt und genau beschriftet ist. Die Güter sind nach den geltenden internationalen und na- tionalen Vorschriften verpackt, geladen, gesichert, verladen, verladen, verladen, verladen und beinhalten 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 labeled/placarded and are in all ways properly secured for transport according to the applicable international and national government regulations.					
Name/Funktion, Unternehmen/Organisation des Unterzeichners Name/status, company/organization of signatory Ok, für Doppel- / Deputy Manager Logistics Place and date Sudarshan, 2026-08-27, in P.L.T GmbH Heubachstraße 7 38685 Langelsheim Deutschland / Germany					

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

Commercial Product Name: HEUCOPHOS ZPA

Article-No.: 1001710

Revision Date: 07.05.2026

Replaces version from: 28.03.2025

Version: 2.16/en

Print date: 27.08.2026

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**Commercial Product Name **HEUCOPHOS ZPA****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.sudarshan.com

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

1.4 Emergency telephone number

Great Britain CHEMTREC international: +1 703-741-5970
 CHEMTREC UK (London): +(44)-870-8200418 | Germany: Giftinformationszen-
 trum-Nord, +49(0)551-19240 (German/English)

Ireland CHEMTREC Ireland (Dublin): +(353)-19014670 | Germany: Giftinformationszen-
 trum-Nord, +49(0)551-19240 (German/English)

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

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

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 hazardsArticle 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

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

Commercial Product Name: HEUCOPHOS ZPA

Article-No.: 1001710

Revision Date: 07.05.2026

Replaces version from: 28.03.2025

Version: 2.16/en

Print date: 27.08.2026



(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)	50.0 - 80.0 % by weight
zinc oxide	CAS No.: 1314-13-2 EC-No.: 215-222-5 Index-No.: 030-013-00-7 REACH No.: 01-2119463881-32-0000	*Aquatic Acute 1; H400 Aquatic Chronic 1; H410 (M=1)	1.0 - 2.5 % 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.: 01-2119463881-32-0000	acute:1 chronic:1	

Other data

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

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.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention

Treat symptomatically.

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

Commercial Product Name: HEUCOPHOS ZPA

Article-No.: 1001710

Revision Date: 07.05.2026

Replaces version from: 28.03.2025

Version: 2.16/en

Print date: 27.08.2026



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.
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6.2 Environmental precautions

Environmental precautions	Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.
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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.
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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.
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Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: HEUCOPHOS ZPA

Article-No.: 1001710

Revision Date: 07.05.2026

Replaces version from: 28.03.2025

Version: 2.16/en

Print date: 27.08.2026



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)

Ireland			
Long-term exposure value/ mg/m3	Note	Short-term exposure value / mg/m3	Source
2	fume Respirable fraction		Code of Practice for the Safety Health and Welfare at Work (2011)
	fume	10	Code of Practice for the Safety Health and Welfare at Work (2011)

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
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

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590,5 µgZn/L	PNEC sewage treatment plant (STP)	* 1)	REACH Dossier
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* 1): trizinc bis(orthophosphate)

aluminium orthophosphate

Ireland		
Long-term exposure value/ mg/m3	Note	Source
10	total inhalable dust	Code of Practice for the Safety Health and Welfare at Work (2011)
4	respirable dust	Code of Practice for the Safety Health and Welfare at Work (2011)
2		Code of Practice for the Safety Health and Welfare at Work (2011)
5	welding fume	Code of Practice for the Safety Health and Welfare at Work (2011)
1	respirable dust	Code of Practice for the Safety Health and Welfare at Work (2011)
1	Respirable Fraktion	Code of Practice for the Safety Health and Welfare at Work (2011)

Great Britain		
Long-term exposure value/ mg/m3	Remarks	Source
10	inhalable dust	EH40/2005 Workplace exposure limits (2011)
4	respirable dust	EH40/2005 Workplace exposure limits (2011)
2		EH40/2005 Workplace exposure limits (2011)
10	inhalable dust	EH40/2005 Workplace exposure limits (2011)
4	respirable dust	EH40/2005 Workplace exposure limits (2011)

zinc oxide

Ireland			
Long-term exposure value/ mg/m3	Note	Short-term exposure value / mg/m3	Source
2	fume Respirable fraction		Code of Practice for the Safety Health and Welfare at Work (2011)
	fume	10	Code of Practice for the Safety Health and Welfare at Work (2011)

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

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Commercial Product Name: HEUCOPHOS ZPA

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Revision Date: 07.05.2026

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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.
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

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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
PH	5,5 - 6,5
Viscosity, kinematic [mm²/s]	not applicable
Viscosity, dynamic [kg/(m s)]	not applicable
Water solubility [g/l]	< 5
Remarks	ISO 787-3
Partition coefficient n-octanol /water (log P O/W)	not applicable
Vapour pressure [kPa]	not applicable
Density [g/cm³]	2,8
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.

Print date: 27.08.2026

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

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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 (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more endocrine disrupting properties.
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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l]	6,3 mg/L
Test criterion	LC50:
Test species	Oncorhynchus mykiss (Rainbow trout)
Exposure duration [h]	96h
Toxicity to daphnia [mg/l]	63,1 mg/L
Test criterion	EC50
Test species	Daphnia magna (Big water flea)
Exposure duration [h]	48h
Toxicity to algae [mg/l]	91,2 mg/L
Test criterion	ErC50:
Test species	Desmodesmus subspicatus.
Exposure duration [h]	72h
Aquatic toxicity [mg/l]	Chronic (long-term) toxicity: Very toxic to aquatic life with long lasting effects.

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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.

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.

Waste Code 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

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.	UMWELTGEFÄHRDENDER STOFF, FEST, N.A.G.	Umweltgefährdender Stoff, fest, n.a.g.
14.3 Transport hazard class(es)	9	9	9
14.4 Packaging group	III	III	III
Danger releasing substance	trizinc bis(orthophosphate)	trizinc bis(orthophosphate)	trizinc bis(orthophosphate)

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	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
Labels			
Risk No.	90		
Category	3		
Classification Code	M7		
Tunnel restriction code	-		
Name affix	mixture	mixture	mixture
14.5 Environmental hazards	U - Umweltgefährdend	U - marine pollutant	U - Environmentally hazardous
UN proper shipping name	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trizinc bis(orthophosphate))	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

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

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

Commercial Product Name: HEUCOPHOS ZPA

Article-No.: 1001710

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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.

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.
VER285946



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

Notify Party and address
SAME AS CONSIGNEE
CONTACT: BRENDA MORALES
EMAIL: IMPOMEX@LESCHACO.COM
BRENDA.MORALES@LESCHACO.COM
PH: +5255 43730105 *

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

6/09/BRE/5260

Copy

		Place of receipt BREMEN CFS		
Ocean vessel MAERSK DANUBE	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
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 12.09.2026

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
PO 4506999298	4 PALLETS	160 PAPERBAGS HEUCOPHOS ZPA HS CODE: 28352990 IMO CLASS: 9 UN NO.: 3077 PACKAGING GROUP: III NET WEIGHT: 4000 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 UN 3077/CLASS 9/PG III IMO GROSS WEIGHT: 4128,000 KGS IMO NET WEIGHT : 4000,000 KGS		4128,000	7,455
STOWED INTO CONTAINER NO.: UETU8026092				SEAL : B199356	
TOTAL	4 PALLETS			4128,000 KGS	7,455 CBM

Shipper
POINT GLOBAL
INTERNATIONALE SPEDITION GMBH
KATHARINENSTRASSE 9
20457 HAMBURG
VAT DE359610896

B/L No.
VER285957



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

6/09/BRE/526002

Copy

Consigned to order of
POINT TRANSPORTES INTERNACIONALES Y ADUANAS
BOULEVARD CONSTITUCION NO. 3080, OFICINA
A-70
COL. SANTA MARIA, MONTERREY, NUEVO
LEON, C.P. 64650, MEXICO
PTI250106N62
EMAIL: MLOPEZ@POINTGL.COM.

Notify Party and address
POINT TRANSPORTES INTERNACIONALES Y ADUANAS
BOULEVARD CONSTITUCION NO. 3080, OFICINA
A-70
COL. SANTA MARIA, MONTERREY, NUEVO
LEON, C.P. 64650, MEXICO
PTI250106N62
EMAIL: MLOPEZ@POINTGL.COM.

Place of receipt
HAMBURG CFS

Ocean vessel
MAERSK DANUBE 636W

Port of loading
BREMERHAVEN

Port of discharge	Place of delivery	Freight payable	Number of original Bills of Lading
VERACRUZ	VERACRUZ CFS	HAMBURG	0/ZERO

Marks and Nos.	Quantity of Goods	Description of Goods	Said to contain	Gross weight, kg.	Measurement, m ³
VER285957 SAINT-GOBAIN MEXICO INV:O. SI261207_30-3902 PL: 30-3902	1 PACKAGES	HS CODE: 84799070 INHALT: 1 BRIDGE WITH DISC BRUSHES SB 1800 1 MANUAL ROTATION STAND FOR BRIDGE ASSEMBLY		1228,000	9,625

STOWED INTO CONTAINER NO.: UETU8026092

SEAL : B199356

TOTAL	1 PACKAGES	1228,000 KGS	9,625 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 12.09.2026

Signed on behalf of the Carrier SACO SHIPPING LINE LIMITED

SACO Shipping GmbH
Wolkämmereistraße 1
21107 Hamburg
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
KUEHNE + NAGEL (AG & CO.) KG
WUHANSTRASSE 13
47051 DUISBURG
GERMANY
AGENT OF BLUE ANCHOR LINE

B/L No.
VER285971



SACO SHIPPING LINE LTD

Consigned to order of

KUEHNE NAGEL FORWARDING SA DE CV
CARR. AGUA FRIA PARQUE INDUSTRIAL
PROLOGIS 505 E. 4 (SUITE 100) 66620
APODACA NUEVO LEON TAX ID:KSN220401GKA
AGENT OF BLUE ANCHOR LINE
E-MAIL:???????

Notify Party and address

KUEHNE NAGEL FORWARDING SA DE CV
CARR. AGUA FRIA PARQUE INDUSTRIAL
PROLOGIS 505 E. 4 (SUITE 100) 66620
APODACA NUEVO LEON TAX ID:KSN220401GKA
AGENT OF BLUE ANCHOR LINE

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

6/09/BRE/5260

Copy

		Place of receipt BREMEN CFS	
Ocean vessel MAERSK DANUBE		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery VERACRUZ CFS		Number of original Bills of Lading 0/ZERO
Marks and Nos. VER285971 TUBOS DE ACERO MEXICO MADE IN GERMANY PO 3105796991 STOWED INTO CONTAINER NO.: UETU8026092	Quantity of Goods 1 CAS	Description of Goods CIRCULAR SAW BLADES INVOICE: VR26X02472 **HSCODE: 820239**	Said to contain Gross weight, kg. 385,000 Measurement, m ³ 0,507
		Freight payable BREMEN	
		SEAL : B199356	

TOTAL	1 CAS	385,000 KGS	0,507 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 12.09.2026

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
KUEHNE + NAGEL (AG & CO.) KG
WUHANSTRASSE 13
47051 DUISBURG
GERMANY
AGENT OF BLUE ANCHOR LINE

B/L No.
VER285972



SACO SHIPPING LINE LTD

Consigned to order of

KUEHNE NAGEL FORWARDING SA DE CV
CARR. AGUA FRIA PARQUE INDUSTRIAL
PROLOGIS 505 E. 4 (SUITE 100) 66620
APODACA NUEVO LEON TAX ID:KSN220401GKA
AGENT OF BLUE ANCHOR LINE

Notify Party and address

KUEHNE NAGEL FORWARDING SA DE CV
CARR. AGUA FRIA PARQUE INDUSTRIAL
PROLOGIS 505 E. 4 (SUITE 100) 66620
APODACA NUEVO LEON TAX ID:KSN220401GKA
AGENT OF BLUE ANCHOR LINE

SACO SHIPPING LINE LIMITED

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

6/09/BRE/5260

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

Copy

		Place of receipt BREMEN CFS	
Ocean vessel MAERSK DANUBE		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. VER285972 TUBOS DE ACERO MEXICO MADE IN GERMANY PO REPLACEMENT SAWS FOR BROKEN ONES STOWED INTO CONTAINER NO.: UETU8026092	Quantity of Goods 1 CASE	Description of Goods CIRCULAR SAW BLADES INVOICE: VR26X02473 **HSCODE: 820239**	Said to contain Gross weight, kg. 495,000 Measurement, m ³ 0,575

SEAL : B199356

TOTAL **1 CASE** **495,000 KGS** **0,575 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.

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Place and date of issue
BREMEN 12.09.2026

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
KIND & CO., EDELSTAHLWERK, GMBH & CO.KG
BIELSTEINER STR. 124 - 130
51674 WIEHL
GERMANY

B/L No.
VER285975



SACO SHIPPING LINE LTD

Consigned to order of
THYSSENKRUPP METALURGICA
DE MEXICO SA DE CV
CAMINO A STA AGUEDA 1
72620 SAN MIGUEL XOXTLA
MEXICO
TAX ID: TMM931217S20

Notify Party and address
THYSSENKRUPP METALURGICA
DE MEXICO SA DE CV
CAMINO A STA AGUEDA 1
72620 SAN MIGUEL XOXTLA
MEXICO
TAX ID: TMM931217S20

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
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LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/09/BRE/5260

Copy

		Place of receipt BREMEN CFS	
Ocean vessel MAERSK DANUBE		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
CARGO DETAILS AS PER ATTACHED STATEMENT			
		Gross weight, kg.	Measurement, m ³

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 b) 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.
Declared Value of the Goods (see clause 12) US\$ Ad valorem freight paid:		Place and date of issue BREMEN 12.09.2026
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		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
VER285975 THYSSENKRUPP METALURGICA SAN MIGUEL XOXTLA/MEXICO KIND ORDER NO.: 4008145, 4008140, 4008149 BOX NO. 1/ BLOCKS RPU (1.2367) DISCS USD (1.2344) RING SEGMENTS USD (1.2344) MADE IN GERMANY PUERTO VERACRUZ / MEXICO STOWED INTO CONTAINER NO.: UETU8026092	10 CASES	BAR STEEL, MACHINED OPEN-DIE FORGINGS HS CODE: 72284010, 73269092, 73261910		9461,000	3,294
SEAL : B199356					
TOTAL		10 CASES		9461,000 KGS	3,294 CBM

Shipper
WITT-GASETECHNIK GMBH & CO. KG

B/L No.
VER285986

SALINGER FELD 4-8
58454 WITTEN



SACO SHIPPING LINE LTD

Consigned to order of
PRAXAIR MEXICO / WELLDEX INTL.
AEROPUERTO INTL DE LA CUIDAD MEXICO
DELEGACION VE
NORTE 33, NO. 161, COL. MOCTEZUMA 2
DASE. - 15530 CIUDAD DE MEXICO
TAX ID: PME-960701-GG0

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

ALL COSTS, CHARGES,
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LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/09/BRE/5260

Copy

Notify Party and address
PRAXAIR MEXICO / WELLDEX INTL.
AEROPUERTO INTL DE LA CUIDAD MEXICO
DELEGACION VE
NORTE 33, NO. 161, COL. MOCTEZUMA 2
DASE. - 15530 CIUDAD DE MEXICO
TAX ID: PME-960701-GG0

		Place of receipt WITTEN	
Ocean vessel MAERSK DANUBE		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. VER285986 PRAXAIR MEXICO 62651217	Quantity of Goods 2 CRATES	Description of Goods ELECTRIC GAS MIXERS, CONNECTION SETS, STAINLESS STEEL RECEIVER HS: 73110091, 74122000, 90328900	Said to contain Gross weight, kg. 697,000 Measurement, m ³ 4,828

INVOICE-NO.:
61659726
STOWED INTO CONTAINER NO.: UETU8026092

SEAL : B199356

TOTAL **2 CRATES** **697,000 KGS** **4,828 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
b) assumes liability as prescribed in this document for such transport.

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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 12.09.2026

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

B/L No.
VER285993



SACO SHIPPING LINE LTD

SACO SHIPPING LINE LIMITED

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

6/09/BRE/5260

ALL COSTS, CHARGES,
LIABILITIES AND DELAYS
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QUARANTINE FOR WOOD AND
WOODEN PACKAGING OR FROM
INSUFFICIENT OR IMPROPER
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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 BREMEN CFS	
Ocean vessel MAERSK DANUBE		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. BINZEL S.A. DE C.BV. MUNICIPIO DE TEPEZAL #109 VALLE DE AGUASCALIENTES 20358 SAN FCA DE LOS ROMO MEXICO REF# 32603590 + 32603531+ 32603347	Quantity of Goods 8 PACKAGES	Description of Goods Said to contain WELDING TORCHES AND SPAREPARTS REF# 32603590 + 32603531+ 32603347 HS-CODES: 392690, 846693, 851590, 853650, 820411, 381090, 391739, 391910, 392321, 400911, 400931, 401693, 681599, 731815, 732690, 741220, 741980, 820780, 841239, 841410, 842199, 842199, 847989, 848120, 848120, 848210, 848390, 851590, 853690, 853690, 854442, 854449	Gross weight, kg. 2834,000 Measurement, m ³ 10,559

STOWED INTO CONTAINER NO.: UETU8026092

SEAL : B199356

TOTAL **8 PACKAGES** **2834,000 KGS** **10,559 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 12.09.2026

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

DSV AIR & SEA GERMANY GMBH
SCHLACHTE 15-18 AS AGENT OF DSV OCEAN
TRANSPORT A/S, DENMARK
BREMEN 28195 GERMANY
EORI+DE2329875

B/L No.
VER285997



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
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LABELLING OF NON-WOODEN
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CUSTOMER'S ACCOUNT

6/09/BRE/5260

Copy

Consigned to order of

DSV AIR & SEA, S.A. DE C.V.
AV. INSURGENTES SUR 1271 P. 4/5,
EXTREMADURA INSU. AS AGENT OF DSV OCEAN
TRANSPORT A/S, DENMARK
CIUDAD DE MEXICO CMX 03740 MEXICO
RFC:DAA020218JY1

Notify Party and address

DSV AIR & SEA, S.A. DE C.V.
AVENIDA INSURGENTES SUR 1271
MEXICO CITY MEX 03740 MEXICO
+525554889960
+525554889960
INGRID.SOTO@DSV.COM
RFC:DAA020218JY1

Place of receipt

HAMBURG CFS

Ocean vessel

MAERSK DANUBE

Port of loading

BREMERHAVEN

Port of discharge

VERACRUZ, MEXICO

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
HOTELHAUS, S.A. DE C.V. MEXICO ORDER: B-2671,SH-2629, B-2633,B-2665, B-2651 STOWED INTO CONTAINER NO.: UETU8026092	5 PACKAGES	TABLEWARE INVOICE: 98347287, 98347288, 98347289, 98347290, 94310819 HS CODE: 69111000 HBL: BRG0219116 **HSCODE: 691110**		1045,200	3,861

SEAL : B199356

TOTAL 5 PACKAGES 1045,200 KGS 3,861 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:

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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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Place and date of issue

BREMEN 11.09.2026

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
ELRINGKLINGER AG
MAX EYTH STRASSE 2
D- 72581 DETTINGEN
TAX ID:DE2654482

B/L No.
VER286011



SACO SHIPPING LINE LTD

Consigned to order of

MAHLE AFTERMARKET S. DE R.L. DE C.V
KM 53.900 CARRETERA MEXICO - TOLUCA
ZONA INDUSTRIAL DONA ROSA, LETRA E
LERMA, MX 52000
TAXID MAF111001MA3
DALLANY.MAYTE.DE.LA.LUZ@MAHLE.COM

Notify Party and address

TRAMITACIONES COMERCIALES
INTERNACIONALES S.C.
PROLONGACIN MIGUEL ALEMN NO. 4800-A
COL. ENRIQUE C.
REBSAMEN C.P.91968 VERACRUZ VER. ME
A.A. RAMON GARZA BARRIOS *

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
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INSUFFICIENT OR IMPROPER
LABELLING OF NON-WOODEN
PACKAGING ARE FOR
CUSTOMER'S ACCOUNT

6/09/BRE/5260

Copy

		Place of receipt BREMEN CFS	
Ocean vessel MAERSK DANUBE		Port of loading BREMERHAVEN	
Port of discharge VERACRUZ	Place of delivery LERMA DAP		Freight payable BREMEN
		Number of original Bills of Lading 0/ZERO	
Marks and Nos. MAHLE AFTERMARKET MEXICO *PATENTE: 3649 LIC LUIS ANGEL CARVALLO / YURIDIA CASTILLA / CARLOS ALEMN/ANTON TEL - FAX: (229)937-9711 EXT. 822 E-MAIL: ANGELCARVALLO@GRUPOR OMEN.COM	Quantity of Goods 11 PALLETS	Description of Goods ELRING GASKETS AND GASKET SETS HS CODES: 840999,848790 848490, 731815,741521 681599 DELIVERY TO: MAHLE AFTERMARKET S DE RL DE CV KM 53.900 CARRETERA MEXICO - TOLUCA, ZONA INDUSTRIAL DONA ROSA, LETRA E 1A LERMA, MX 52000	Said to contain Gross weight, kg. 2286,240 Measurement, m ³ 8,017

STOWED INTO CONTAINER NO.: UETU8026092

SEAL : B199356

TOTAL 11 PALLETS 2286,240 KGS 8,017 CBM

FREIGHT PREPAID UPTO DAP - SHIPPED ON BOARD - EXPRESS B/L

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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Place and date of issue

BREMEN 12.09.2026

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



INLAND SERVICE COORDINATION ON-CARRIAGE

Agent: SACO SHIPPING GMBH, HAMBURG
Contact: JOSEFINE LANGE e-mail: josefine.lange@saco.de Phone:
Product: FAK / Dry Cargo Estimated Cargo Value:
Total Packages: 11 Total Gross weight: 2,286.24 Volume: 8.279
Chargeable Vol: 8.279 Dangerous: NO Stackable: NO

Dear:
The following quote applies only to the details provided (origin, destination, routing, weight, volume, type of commodity, etc.) If any of these concepts change the costs may vary, so it will be necessary to request an update of the quotation.

Service ON-CARRIAGE T.T 2 Days
Pick up Port: VERACRUZ Delivery Place: Pueblo Lerma de Villada Centro, Lerma, Estado de México, México

Dimensions in meters

No. of Packages	Length m	Width m	Height m	Volume	Weight per packageKgs	Total weight Kgs
1	1.20	0.80	0.60	0.58	566.00	566.00
1	1.20	0.80	1.05	1.01	784.00	784.00
2	1.20	0.80	1.05	2.02	157.00	314.00
1	1.20	0.80	1.05	1.01	153.00	153.00
1	1.20	0.80	1.05	1.01	159.00	159.00
1	1.17	0.80	0.79	0.74	61.00	61.00
1	1.17	0.80	0.64	0.60	82.00	82.00
1	1.20	0.80	0.60	0.58	99.00	99.00
1	1.19	0.42	0.30	0.15	19.24	19.24
1	1.17	0.80	0.64	0.60	49.00	49.00
11 Packages				8.279 m ³		2286.24 Kgs

Inland freight

Concept	Currency	Rate	Unit	Subtotal	VAT	Amount
Inland Servcie Coordination (Pick up & Delivery)	USD	669.275	LS	669.275	0.000	669.275
Total Inland freight: 669.28 USD						

SUBTOTAL	669.28 USD
(IVA / VAT)	0.00 USD
TOTAL	669.28 USD

VALIDITY: 2026-09-15
EXCHANGE RATE: 16.97

We thank you for your preference! In case you should have any questions, please do not hesitate to contact us.
Best regards.

Quotation sent by: VJASSO
vanessa.jasso@interteam.com.mx
Office phone +52 +55 55149897
www.interteam.com.mx

Print Date: 2026/09/01 11:56:35

All contracted services with INTERTEAM, S.A. de C.V. are subject to the Standard Trading Conditions (STC) established by the Mexican Association of Freight Forwarders (AMACARGA) which can be found here: [STC y T&C](#)

1. THE CUSTOMER acknowledges that the operations carried out by INTERTEAM are subject to the Standard Trading Conditions (STC) prepared and published by the Asociación Mexicana de Agentes de Carga, A.C., except for the clauses relating to forms of payment and documentation delivery deadlines for the operation, which can be consulted on the following page: (Clause 13). However, the transportation document applicable to the operation and the terms and conditions of the operational documents sent by INTERTEAM will also be subject to the corresponding contract.
2. For the purposes of the STC, the term LOADING AGENT will be understood to refer to INTERTEAM as a service provider in its capacity of NVOCC (Non-Vessel Operating Common Carrier) (consolidator) and the term CUSTOMER will refer to freight agents or customers in general who request the service from INTERTEAM.
3. The clauses of the STC will be applicable in those cases that are consistent with the specific service contracted.
4. For the purposes of clause 17.4 of STC, THE CUSTOMER will have a maximum of 1 (one) day after the collection of the goods to deliver the necessary data, documents, and information for that specific service.
5. INTERTEAM may request additional documents to those indicated in clauses 17.4.1 to 17.4.6. of the STC.
6. The goods travel at the expense and risk of THE CUSTOMER and it will be solely responsible for contracting and accepting the terms and conditions of the insurance policy, even when the INCOTERM quoted includes insurance, it will be the responsibility of THE CUSTOMER to expressly request it.
7. THE CUSTOMER declares that it has sufficient legal resources to cover its obligations to INTERTEAM.
8. THE CUSTOMER will be required to immediately inform INTERTEAM of any instruction on the insurance policy contracted on its own so that it is fulfilled; otherwise, INTERTEAM will be released from any responsibility. Likewise, if INTERTEAM contracts the insurance policy, it will not be required to know the conditions of said policy, so any additional service indicated by the policy will be quoted separately and at the express request of THE CUSTOMER.
9. INTERTEAM is not responsible for delays in the delivery of goods since the delivery is made based on estimated delivery and arrival times.
10. THE CUSTOMER acknowledges that the conditions and form of payment will be determined in the quotation or, where appropriate, in accordance with the credit agreement granted by INTERTEAM.
11. The deadline to deliver the documentation of the operation will be up to 24 hours after the booking is made. Otherwise, if the change cannot be made or if there are delays, it will be the responsibility of THE CUSTOMER.
12. For DAP (Delivered-at-Place) services, in local transfers and to and from distribution centers (centros de distribución, CEDIS), THE CUSTOMER will be solely responsible for contracting the goods insurance.
13. INTERTEAM must send the invoice within a period of no more than 24 hours after receiving the customer's instructions; consequently, THE CUSTOMER will have a period of 24 hours to review and request clarification or corrections. Once this period has elapsed, THE CUSTOMER must pay the invoice within 72 hours after receiving the invoice.
14. All shipments are booked as stackable unless expressly mentioned otherwise. If THE CUSTOMER desires to change the shipment to NON-STACKABLE, it will be quoted again; any expense or delay that this request causes will be attributable to THE CUSTOMER.
15. THE CUSTOMER will be responsible for the damage caused to the container, so THE CUSTOMER must have an insurance policy that covers this type of loss.
16. THE CUSTOMER acknowledges that the process and delivery of VGM (Verified Gross Mass) (cargo weighing) will be mandatory to be able to ship its goods in the case of maritime transport.
17. If THE CUSTOMER has credit, and the service exceeds the limit granted, THE CUSTOMER must pay the total debt to proceed to releasing the goods; the foregoing, even if a part of the debt is subject to credit.
18. The pandemic caused by the SARS-COV-2 virus (COVID-19) has caused a shortage of containers, port congestion, lack of space, lag times and/or changes in itineraries, which can represent additional costs, such as delays, storage, etc., so INTERTEAM will NOT absorb for any reason the payment of any type of extra costs, since their origin is beyond INTERTEAM's control.
19. If the quoted service is a ROUTING ORDER of an INTERTEAM's counterparty, we inform you that charging for delays will apply in cases where the goods cannot be imported or exported.
20. INTERTEAM DOES NOT carry out procedures with warehouses or authorities of any kind in case the goods cannot be cleared through customs.
21. THE CUSTOMER is responsible for delivering the applicable customs information to comply with the issuance of the corresponding transfer-type CFDI (Comprobante Fiscal Digital por Internet, digital tax receipt).