



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

## Eni metalClean AKR

Material number 930

Revision date: 12.10.2023

Version: 1.1

Replaces version: 1.0

Language: en-DE

Date of print: 2.11.2023

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

### 1.1 Product identifier

Trade name: Eni metalClean AKR

UFI: 4X80-T0KV-H00C-M3RM

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

General use: Cleaner

### 1.3 Details of the supplier of the safety data sheet

Company name: Eni Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: 97080 Würzburg

Germany

WWW: [www.enischmiertechnik.de](http://www.enischmiertechnik.de)

E-mail: [info.wuerzburg@eni.com](mailto:info.wuerzburg@eni.com)

Telephone: +49 (0)931-90098-0

Telefax: +49 (0)931-98442

Department responsible for information:

Application Engineering & Product Management (AEPM)

Telephone: +49 (0)931-90098-0

E-mail: [technik.wuerzburg@eni.com](mailto:technik.wuerzburg@eni.com)

### 1.4 Emergency telephone number

**GIZ-Nord, Göttingen**

**Telephone: +49 (0)551-19240**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

Skin Corr. 1B; H314 Causes severe skin burns and eye damage.

Eye Dam. 1; H318 Causes serious eye damage.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (CLP)



Signal word: **Danger**

Hazard statements: H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.



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Precautionary statements:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P260	Do not breathe mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER/doctor.
	P405	Store locked up.
	P501	Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

Text for labelling:

Contains: 2-(2-Aminoethoxy)ethanol

Labelling for contents according to regulation (EC) No 648/2004, annex VII:

Contains

- less than 5% non-ionic surfactants, phosphonates

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher.

The product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions



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Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119520701-52-xxxx EC No. 213-195-4 CAS 929-06-6	2-(2-Aminoethoxy)ethanol Skin Corr. 1B; H314. Eye Dam. 1; H318.	< 15 %
list no. 608-578-1 CAS 31075-24-8	1,2-Ethanediamine, N,N,N',N'-tetramethyl-, polymer with 1,1'-oxybis(2-chloroethane) Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 10.	< 1 %
REACH 01-2119511183-53-xxxx EC No. 201-993-5 CAS 90-43-7	Biphenyl-2-ol Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335. Aquatic Acute 1; H400.	< 0,5 %
EC No. 223-296-5 CAS 3811-73-2	Pyridine-2-thiol 1-oxide, sodium salt Acute Tox. 4; H302. Acute Tox. 3; H311. Acute Tox. 3; H331. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. STOT RE 1; H372. Aquatic Acute 1; H400. Aquatic Chronic 2; H411. (EUH070). Acute toxicity estimate (ATE): Oral: 500 mg/kg bw. Dermal: 790 mg/kg bw. Inhalative, dust/mist: 0,5 mg/L. M-factors: Aquatic Acute 1: M = 100.	< 0,1 %

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

Additional information: Contains Triethanolamine. The maximum workplace exposure limits are, where necessary, listed in section 8.  
Labelling for contents according to regulation (EC) No 648/2004, annex VII:  
Contains  
- less than 5% non-ionic surfactants, phosphonates

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: First aider: Pay attention to self-protection!  
If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

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

Causes severe skin burns and eye damage.

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

Treat symptomatically.



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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.  
Water spray jet, extinguishing powder, foam, sand and carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

### 5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.  
Furthermore, there may develop: smoke, carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Use a breathing apparatus independent of the ambient air (isolated apparatus) and a full protection outfit (suit) against chemicals.

Additional information:

Use fine water spray to cool endangered containers.  
Do not allow water used to extinguish fire to enter drains, ground or waterways.  
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Avoid contact with the substance.  
If possible, eliminate leakage. Provide adequate ventilation.  
Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Keep unprotected people away.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Do not allow to enter into soil/subsoil.  
If necessary notify appropriate authorities.

### 6.3 Methods and material for containment and cleaning up

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.  
Never return spills in original containers for re-use.

Additional information:

Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray.  
Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.  
Take off immediately all contaminated clothing and wash it before reuse.  
When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from heat.  
When handling larger quantities, take precautionary measures against electrostatic charging.



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### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.

Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight.

Store containers in upright position.

Recommended storage temperature: 5-40 °C

Shelf life: 12 months

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Storage class:

8A = Combustible corrosive substances

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
929-06-6	2-(2-Aminoethoxy) ethanol	Germany: TRGS 900 Kurzzeit	0,87 mg/m <sup>3</sup> ; 0,2 ppm (Aerosol and vapour, may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	0,87 mg/m <sup>3</sup> ; 0,2 ppm (Aerosol and vapour, may be absorbed through the skin)
90-43-7	Biphenyl-2-ol	Germany: TRGS 900 Kurzzeit	5 mg/m <sup>3</sup> (Aerosol and vapour, inhalable fraction)
		Germany: TRGS 900 Langzeit	5 mg/m <sup>3</sup> (Aerosol and vapour, inhalable fraction)
3811-73-2	Pyridine-2-thiol 1-oxide, sodium salt	Germany: TRGS 900 Kurzzeit	0,4 mg/m <sup>3</sup> (inhalable fraction; may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	0,2 mg/m <sup>3</sup> (inhalable fraction; may be absorbed through the skin)
102-71-6	Triethanolamine	Germany: TRGS 900 Kurzzeit	1 mg/m <sup>3</sup> (inhalable fraction)
		Germany: TRGS 900 Langzeit	1 mg/m <sup>3</sup> (inhalable fraction)

DNEL/DMEL:

Information about Triethanolamine

Workers, Long-term, systemic:

DNEL, dermal: 6,3 mg/kg bw/d.

DNEL, inhalative: 5 mg/m<sup>3</sup>.

Information about 2-(2-Aminoethoxy)ethanol

Workers, Long-term, local:

DNEL, inhalative: 0,67 mg/m<sup>3</sup>.

Workers, Long-term, systemic:

DNEL, dermal: 7,3 mg/kg bw/d.

Workers, Short-term, systemic:

DNEL, inhalative: 1,12 mg/m<sup>3</sup>.

Information about Biphenyl-2-ol

Workers, systemic:

DNEL, inhalative: 19,25 mg/m<sup>3</sup>.

DNEL, dermal: 21,84 mg/kg bw/d.



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PNEC: Information about Triethanolamine  
PNEC water (freshwater): 0,32mg/L.  
PNEC water (marine water): 0,032mg/L.  
PNEC sediment (freshwater): 1,7 mg/ kg dwt.  
PNEC sediment (marine water): 0,17 mg/ kg dwt.  
PNEC soil: 0,151 mg/ kg dwt.

Information about 2-(2-Aminoethoxy)ethanol  
PNEC water (freshwater): 0,0202mg/L.  
PNEC water (marine water): 0,0202mg/L.  
PNEC sediment (freshwater): 0,945 mg/ kg dwt.  
PNEC sediment (marine water): 0,0945 mg/ kg dwt.  
PNEC sewage treatment plant: 28 mg/L. Information about Biphenyl-2-ol  
PNEC water (freshwater): 0,0009mg/L.  
PNEC water (marine water): 0,00009mg/L.  
PNEC sediment (freshwater): 0,1284 mg/ kg dwt.  
PNEC sewage treatment plant: 0,56 mg/L.

## 8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. In case of inadequate ventilation wear respiratory protection.

Respiratory protection in case of aerosol or vapour formation. Recommendation: Combination filtering device (EN 14387)

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection:

Protective gloves according to DIN EN 374.

permanent contact: Glove material: Nitrile rubber, > 0,7 mm

Breakthrough time: > 480

During splash contact: Glove material: Nitrile rubber, > 0,4 mm

Breakthrough time: > 30 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection:

Tightly sealed goggles according to DIN EN ISO 16321-1:2022.

Body protection:

Wear suitable protective clothing.

General protection and hygiene measures:

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

Take off immediately all contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

When handling large quantities, supply emergency spray.

### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa

liquid

Colour:

yellow

Odour:

Characteristic

Odour threshold:

No data available

Melting point/freezing point:

No data available

Initial boiling point and boiling range:

> 100 °C



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Flammability:	No data available
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): Not determined UEL (Upper Explosive Limit): Not determined
Flash point/flash point range:	> 100 °C (DIN EN ISO 2592)
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
pH:	at 20 °C, 1%: 9,6
Viscosity, kinematic:	No data available
Water solubility:	at 20 °C: Miscible
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	at 15 °C: 1,084 g/mL (DIN EN ISO 12185)
Vapour density:	No data available
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	Product is not explosive.
Oxidizing characteristics:	Not oxidising
Auto-ignition temperature:	No data available
Evaporation rate:	No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.  
Protect from direct sunlight.

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

	No decomposition when used properly.
Thermal decomposition:	Not determined



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## SECTION 11: Toxicological information

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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Corr. 1B; H314 = Causes severe skin burns and eye damage.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

Endocrine disrupting properties: None

#### Symptoms

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Water Hazard Class: 3 = highly hazardous to water (Self-classification (mixture).)

Further details: The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### 12.2 Persistence and degradability

Further details: No data available

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

None



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### 12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 07 06 01\* = aqueous washing liquids and mother liquors  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

#### Package

Recommendation: Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:  
UN 1760

### 14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:  
UN 1760, CORROSIVE LIQUID, N.O.S. (2-(2-Aminoethoxy)ethanol)

### 14.3 Transport hazard class(es)

ADR/RID, ADN: Class 8, Code: C9  
IMDG: Class 8, Subrisk -  
IATA-DGR: Class 8



### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:  
III

### 14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous  
according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

### 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 80, UN number UN 1760  
Hazard label: 8  
Special Provisions: 274  
Limited quantities: 5 L  
EQ: E1  
Package - Instructions: P001 IBC03 LP01 R001  
Special provisions for packing together: MP19  
Portable tanks - Instructions: T7  
Portable tanks - Special Provisions: TP1 TP28  
Tank coding: L4BN  
Tunnel restriction code: (E)



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### Inland waterway craft (ADN)

Hazard label: 8  
Special Provisions: 274  
Limited quantities: 5 L  
EQ: E1  
Transport permitted: T  
Equipment necessary: PP - EP

### Sea transport (IMDG)

EmS: F-A, S-B  
Special Provisions: 223 274  
Limited quantities: 5 L  
Excepted quantities: E1  
Package - Instructions: P001, LP01  
Package - Provisions: -  
IBC - Instructions: IBC03  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T7  
Tank instructions - Provisions: TP1, TP28  
Stowage and handling: Category A. SW2  
Properties and observations: Causes burns to skin, eyes and mucous membranes.  
Segregation group: none

### Air transport (IATA)

Hazard label: Corrosive  
Excepted Quantity Code: E1  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L  
Special Provisions: A3 A803  
Emergency Response Guide-Code (ERG): 8L

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Germany

Storage class: 8A = Combustible corrosive substances  
Water Hazard Class: 3 = highly hazardous to water (Self-classification (mixture).)  
Information on working limitations:  
Observe employment restrictions for young people.  
Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

#### National regulations - EC member states

Volatile organic compounds (VOC):

0 % by weight

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 75.

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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### SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed.  
H311 = Toxic in contact with skin.  
H314 = Causes severe skin burns and eye damage.  
H315 = Causes skin irritation.  
H317 = May cause an allergic skin reaction.  
H318 = Causes serious eye damage.  
H319 = Causes serious eye irritation.  
H331 = Toxic if inhaled.  
H335 = May cause respiratory irritation.  
H372 = Causes damage to organs through prolonged or repeated exposure.  
H400 = Very toxic to aquatic life.  
H410 = Very toxic to aquatic life with long lasting effects.  
H411 = Toxic to aquatic life with long lasting effects.  
H412 = Harmful to aquatic life with long lasting effects.  
EUH070 = Toxic by eye contact.

Reason of change: Changes in section 9: Physical and chemical properties

Date of first version: 6.6.2023

Department issuing data sheet: see section 1: Department responsible for information

Abbreviations and acronyms: Acute Tox.: Acute toxicity  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aquatic Acute: Hazardous to the aquatic environment - acute  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
Bw: Body weight  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Dam.: Eye damage  
Eye Irrit.: Eye irritation  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
M-factor: Multiplication factor  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Corr.: Skin corrosion  
Skin Irrit.: Skin irritation  
Skin Sens.: Skin sensitisation  
STOT RE: Specific target organ toxicity - repeated exposure  
STOT SE: Specific target organ toxicity - single exposure  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:  
<http://sumdat.net/xmicak>

