

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

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

1.1 Product identifier

Product number	581155
Product name	AZ 2026 MIF DEVELOPER

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

Identified uses	Materials for use in technical applications
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1.3 Details of the supplier of the safety data sheet

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	PM-OQR * e-mail: PM_SDS_Supply@merckgroup.com

1.4 Emergency telephone number

Please contact the regional company representation in your country.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Acute toxicity, Category 4	H302: Harmful if swallowed. Calculation method
Acute toxicity, Category 3	H311: Toxic in contact with skin. Calculation method
Skin corrosion, Sub-category 1C	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 2, Central nervous system	H371: May cause damage to organs. Calculation method
Specific target organ toxicity - repeated exposure, Category 2, Liver, thymus gland	H373: May cause damage to organs through prolonged or repeated exposure. Calculation method

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H371 May cause damage to organs (Central nervous system).
H373 May cause damage to organs (Liver, thymus gland) through prolonged or repeated exposure.

Precautionary statements :

Prevention:

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

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:

Tetramethylammonium hydroxide

Reduced Labelling (<= 125 ml)

Hazard pictograms



Signal word
Danger

Hazard statements

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

Precautionary statements

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

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

None known.

SECTION 3: Composition/information on ingredients

Chemical nature : Aqueous solution of organic compounds.

3.1 Substance

Not applicable

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. Registration number	Classification	Concentration (% w/w)
Tetramethylammonium hydroxide	75-59-2 01-2119970562-34- xxxx	Met. Corr. 1; H290 Acute Tox. 2; H300 Acute Tox. 1; H310 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 1; H370 STOT RE 1; H372 Aquatic Chronic 2; H411	>= 1 - < 2,5

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First aider needs to protect himself.
- If inhaled : fresh air. Immediately call in physician.
If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
- In case of skin contact : Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Call a physician immediately.
If a systemic effect is suspected, monitoring and treatment in an intensive care unit is urgently required.
- In case of eye contact : rinse out with plenty of water.
Immediately call in ophthalmologist.
Remove contact lenses.
- If swallowed : make victim drink water (two glasses at most), avoid vomiting (risk of perforation).
Call a physician immediately.
Do not attempt to neutralise.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Headache
Nausea
Vomiting
Salivation
Tremors
Abdominal pain
muscle twitching
Convulsions
Diarrhoea
respiratory arrest
Unconsciousness
death

Irritation and corrosion
Cough
Shortness of breath

Risk of blindness!

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : Suppress (knock down) gases/vapours/mists with a water spray jet.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:
Do not breathe vapours, aerosols.
Avoid substance contact.
Ensure adequate ventilation.
Evacuate the danger area, observe emergency procedures, consult an expert.
Advice for emergency responders:
Protective equipment see section 8.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.
Observe possible material restrictions (see sections 7 and 10).
Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Do not inhale substance/mixture.
Avoid generation of vapours/aerosols.

Observe label precautions.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Further information on storage conditions : Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

Risks from decomposition products: see section 10.3

Recommended storage temperature : Recommended storage temperature see product label.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Tetramethylammonium hydroxide	Workers	inhalation	Long-term systemic effects	0,49 mg/m ³
	Workers	dermal	Long-term systemic effects	0,14 mg/kg
	Workers	dermal	Long-term local effects	0,00625 mg/cm ²

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Tetramethylammonium hydroxide	Water	0,0005 mg/l
	Marine water	0,00005 mg/l
	Fresh water sediment	0,03 mg/kg
	Marine sediment	0,003 mg/kg
	Soil	0,0057 mg/kg
	Sewage treatment plant	5 mg/l
	Intermittent use/release	0,03 mg/l

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled and must meet the specifications of a standard EN/ISO/DIN. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye protection : Tightly fitting safety goggles

Hand protection :
full contact

Glove material : natural latex

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

Glove thickness : 0,6 mm

Break through time : 480 min

splash contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : 10 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example:KCL 706 Lapren®(full contact);KCL 741 Dermatril® L(splash contact).

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Protective measures : Full protective suit
Ensure that eye flushing systems and safety showers are located close to the working place.

Respiratory protection : required when vapours/aerosols are generated.

Recommended Filter type: : Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	viscous liquid
Colour	clear
Odour	No strong odour known.
Odour Threshold	No information available.
pH	ca. 13 at 20 °C

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

Melting point	ca. 0 °C
Boiling point/boiling range	ca. 100 °C at 1.013 hPa
Flash point	does not flash
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	ca. 23 mbar at 20 °C
Relative vapour density	No information available.
Density	ca. 1 g/cm ³ at 20 °C
Solubility(ies)	No information available.
Water solubility	completely soluble
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, kinematic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

9.2 Other data

Viscosity, dynamic	ca. 1 mPas at 20 °C
Corrosion	Corrosive to metals

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Hazardous reactions : Violent reactions possible with:
The generally known reaction partners of water.

Risk of explosion with:
Potassium peroxide

Risk of ignition or formation of inflammable gases or vapours
with:
Metals

Reacts with the following substances:
Strong oxidizing agents
Strong bases

10.4 Conditions to avoid

Conditions to avoid : no information available

10.5 Incompatible materials

Materials to avoid : Metals

Aluminium
Zinc
Tin
bronze

Gives off hydrogen by reaction with metals.

10.6 Hazardous decomposition products

no information available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute Toxicity Estimate (ATE): 302,19 mg/kg
Method: Calculation method

Symptoms: If ingested, severe burns of the mouth and throat,
as well as a danger of perforation of the oesophagus and the
stomach.

Acute inhalation toxicity : Symptoms: mucosal irritations, Cough, Shortness of breath,
Possible damages:., damage of respiratory tract

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

Acute dermal toxicity : Acute Toxicity Estimate (ATE): 523,79 mg/kg
Method: Calculation method

Symptoms: Causes severe burns., Causes severe systemic effects after dermal exposure which could lead to death.

Components:

Tetramethylammonium hydroxide:

Acute oral toxicity : LD50 (Rat, female): 7,5 mg/kg
Method: OECD Test Guideline 423
Remarks: (ECHA)

Acute inhalation toxicity : No data available
Acute dermal toxicity : LD50 (Rat, male and female): 13 mg/kg
Remarks: (ECHA)
Based on human experience.

Skin corrosion/irritation

Product:

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Components:

Tetramethylammonium hydroxide:

Result: Causes burns.
Remarks: (ECHA)

Serious eye damage/eye irritation

Product:

Result: Irreversible effects on the eye
Remarks: Risk of blindness!

Components:

Tetramethylammonium hydroxide:

Result: Irreversible effects on the eye
Remarks: (ECHA)

Respiratory or skin sensitisation

Product:

No data available

Components:

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

Germ cell mutagenicity

Product:

No data available

Components:

Tetramethylammonium hydroxide:

Genotoxicity in vitro : Test Type: Ames test
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: negative
Remarks: (ECHA)

: Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Method: OECD Test Guideline 473
Result: negative
Remarks: (ECHA)

Carcinogenicity

Product:

This information is not available.

Components:

This information is not available.

STOT - single exposure

Product:

No data available

Components:

Tetramethylammonium hydroxide:

Target Organs: Central nervous system
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.
Remarks: (ECHA)

STOT - repeated exposure

Product:

No data available

Components:

Tetramethylammonium hydroxide:

Target Organs: Liver, thymus gland
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.
Remarks: (ECHA)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

Repeated dose toxicity

Product:

No data available

Components:

Tetramethylammonium hydroxide:

Species: Rat, female

NOAEL: 2,5 mg/kg

Application Route: Dermal

Exposure time: 28 d

Number of exposures: daily

Remarks: Local effects

(ECHA)

Species: Rat, male and female

NOAEL: 10 mg/kg

Application Route: Dermal

Exposure time: 28 d

Number of exposures: daily

Remarks: Systemic effects

(ECHA)

Species: Rat, male

NOAEL: 5 mg/kg

Application Route: Oral

Exposure time: 28 d

Method: OECD Test Guideline 407

Remarks: (ECHA)

Aspiration toxicity

Product:

No data available

Components:

No data available

11.2 Other information

Product:

Possible symptoms:

Headache

Nausea

Vomiting

Salivation

Tremors

Abdominal pain

muscle twitching

Convulsions

Diarrhoea

respiratory arrest

Unconsciousness

death

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

Other dangerous properties can not be excluded.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Product:

No data available

Components:

Tetramethylammonium hydroxide:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: (ECHA)
(in analogy to similar compounds)
- Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3 mg/l
aquatic invertebrates : Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: (ECHA)
- Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 96,3
plants : mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: (ECHA)
- Toxicity to daphnia and other : NOEC: 0,025 mg/l
aquatic invertebrates : Exposure time: 48 h
(Chronic toxicity) : Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202
Remarks: (ECHA)

12.2 Persistence and degradability

Product:

No data available

Components:

Tetramethylammonium hydroxide:

- Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: (ECHA)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

12.3 Bioaccumulative potential

Product:

No data available

Components:

Tetramethylammonium hydroxide:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -1,4 (20 °C)
Method: OECD Test Guideline 107
Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

Product:

No data available

Components:

Tetramethylammonium hydroxide:

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

Components:

Tetramethylammonium hydroxide:

Assessment : Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII..

12.6 Other adverse effects

Product:

Additional ecological information : Discharge into the environment must be avoided.

Components:

Tetramethylammonium hydroxide:

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

SECTION 13: Disposal considerations

13.1 Waste treatment methods

SECTION 14: Transport information

Air transport(IATA)

- 14.1. UN/ID No. : UN 1835
14.2. Proper shipping name : Tetramethylammonium hydroxide, solution
(Tetramethylammonium hydroxide)
14.3. Class : 8
14.4. Packing group : III
14.5 Environmentally hazardous : --
14.6 Special precautions for user : no

Sea transport(IMDG)

- 14.1. UN number : UN 1835
14.2. Proper shipping name : TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION
(Tetramethylammonium hydroxide)
14.3. Class : 8
14.4. Packing group : III
14.5 Environmentally hazardous : --
14.6 Special precautions for user : yes
EmS Code : F-A, S-B
Segregation group : Ammonium compounds, Alkalis

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant

Land transport(ADR/RID)

- 14.1. UN number : UN 1835
14.2. Proper shipping name : TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION
(Tetramethylammonium hydroxide)
14.3. Class : 8
14.4. Packing group : III
14.5 Environmentally hazardous : --

SECTION 15: Regulatory information

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

- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

Storage class

: 6.1D

Number on list: 3

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

Revision Note

Safety datasheet sections : SECTION 14 (Transport information)
which have been updated

Full text of H-Statements

H290 : May be corrosive to metals.
H300 : Fatal if swallowed.
H310 : Fatal in contact with skin.
H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H370 : Causes damage to organs.
H372 : Causes damage to organs through prolonged or repeated exposure.
H411 : Toxic to aquatic life with long lasting effects.

Key or legend to abbreviations and acronyms used in the safety data sheet

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

AZ 2026 MIF DEVELOPER

Version: 4.0

Product number: 581155

Revision Date: 09.04.2020

Print Date: 13.05.2020

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.