

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

### 1.1 Product identifier

Trade name: Motorcycle Chain Spray

This safety data sheet pertains to the following products:

22111 = Motorcycle Chain Spray

409468 = Motorcycle Chain Spray

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

General use: coating agent. Restricted to professional users.

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

Company name: Berner Produkten b.v.

Street/POB-No.: Vogelzankweg 175

Postal Code, city: 6374 AC Landgraaf  
Netherlands

WWW: www.berner.nl

E-mail: info@berner.nl

Telephone: +31 45 53 39 133

Department responsible for information:

E-mail: Productsafety.Chemicals@berner-group.com

### 1.4 Emergency telephone number

**Poisons information service:**

**National Poisons Information Service (Birmingham Unit): 844 892 0111**

**Transport:**

**CONSULTANK Lutz Harder GmbH (Contract Qualisys/Berner)**

**Telephone: +49 (178) 4337434 (from USA: 01149 178 4337434)**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Aerosol 1; H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2; H315 Causes skin irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (CLP)



Signal word: **Danger**

Hazard statements:	H222	Extremely flammable aerosol.
	H229	Pressurised container: May burst if heated.
	H315	Causes skin irritation.
	H336	May cause drowsiness or dizziness.
	H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211	Do not spray on an open flame or other ignition source.
	P251	Do not pierce or burn, even after use.
	P261	Avoid breathing vapours/spray.
	P273	Avoid release to the environment.
	P312	Call a POISON CENTER/doctor/.../if you feel unwell.
	P391	Collect spillage.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Special labelling**

Text for labelling:

Contains:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics

Hydrocarbons, C6, isoalkanes, &lt; 5% n-hexane

**2.3 Other hazards**

Potentially explosive mixtures may form if adequate ventilation is not provided.

Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Higher doses may lead to a narcotic effect.

The product is skin resorptive.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

**SECTION 3: Composition/information on ingredients**

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterisation: Blend of active ingredients with propellant.

## Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119475515-33-xxxx list no. 927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.	< 25 %
REACH 01-2119471843-32-xxxx list no. 927-241-2 CAS 1174921-73-3	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics Flam. Liq. 3; H226. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 3; H412. (EUH066).	< 10 %
REACH 01-2119484651-34-xxxx list no. 931-254-9 CAS 64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.	< 10 %
REACH 01-2119480412-44-xxxx EC No. 203-777-6 CAS 110-54-3	n-Hexane Flam. Liq. 2; H225. Skin Irrit. 2; H315. Repr. 2; H361f. STOT SE 3; H336. STOT RE 2; H373. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. Specific concentration limits (SCL): STOT RE 2; H373: C ≥ 5 %	< 1 %
REACH 01-2119463273-41-xxxx EC No. 203-806-2 CAS 110-82-7	Cyclohexane Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 1 %
REACH 01-2119474691-32-xxxx EC No. 203-448-7 CAS 106-97-8	n-Butane Flam. Gas 1; H220. Press. Gas (Comp.); H280.	25 - 50 %
REACH 01-2119486944-21-xxxx EC No. 200-827-9 CAS 74-98-6	Propane Flam. Gas 1; H220. Press. Gas (Comp.); H280.	5 - 10 %
REACH 01-2119485395-27-xxxx EC No. 200-857-2 CAS 75-28-5	Isobutane, pure Flam. Gas 1; H220. Press. Gas (Comp.); H280.	1 - 2.5 %

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

Additional information: Labelling for contents according to regulation (EC) No 648/2004, annex VII:  
 Contains:  
 - 30 % and more: Aliphatic hydrocarbons  
 - 5% or over but less than 15%: lithium stearate (soap)  
 - less than 5%: Non-ionic surfactants

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand.  
 Take off 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 if problems persist.

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 consult 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. Seek medical attention.

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

May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.  
Causes skin irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Extinguishing powder, alcohol resistant foam, carbon dioxide, water spray jet.

Extinguishing media which must not be used for safety reasons:

Full water jet

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

Extremely flammable aerosol. Pressurised container: May burst if heated.  
May form dangerous gases and vapours in case of fire. Furthermore, there may develop:  
Carbon monoxide and carbon dioxide

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Hazchem-Code: -

Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

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

Avoid breathing vapours/spray. Avoid contact with the substance.

In case of leakage, eliminate all ignition sources. Provide adequate ventilation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Cordon off downwind area at risk and warn inhabitants.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

In case of release, notify competent authorities.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

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. Avoid breathing 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 contaminated clothing and wash it before reuse. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

### 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 sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Store containers in upright position.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

### 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
-	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Great Britain: WEL-TWA	1200 mg/m <sup>3</sup> (> or = C7, Normal and branched chain alkanes)
		Great Britain: WEL-TWA	800 mg/m <sup>3</sup> (> or = C7, Cycloalkanes)
1174921-73-3	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	Great Britain: WEL-TWA	1200 mg/m <sup>3</sup> (> or = C7, Normal and branched chain alkanes)
		Great Britain: WEL-TWA	800 mg/m <sup>3</sup> (> or = C7, Cycloalkanes)
64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane	Great Britain: WEL-TWA	1800 mg/m <sup>3</sup> (C5-C6 alkenes)
110-54-3	n-Hexane	Great Britain: WEL-TWA	72 mg/m <sup>3</sup> ; 20 ppm
110-82-7	Cyclohexane	Great Britain: WEL-STEL	1050 mg/m <sup>3</sup> ; 300 ppm
		Great Britain: WEL-TWA	350 mg/m <sup>3</sup> ; 100 ppm
106-97-8	n-Butane	Great Britain: WEL-STEL	1810 mg/m <sup>3</sup> ; 750 ppm
		Great Britain: WEL-TWA	1450 mg/m <sup>3</sup> ; 600 ppm

### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

### Personal protection equipment

#### Occupational exposure controls

**Respiratory protection:** Respiratory protection must be worn whenever the WEL levels have been exceeded.  
 Recommendation: Use combination filter type A/P according to 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 EN 374.  
 Glove material: Nitrile rubber  
 Breakthrough time: >480 min.  
 Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

**Eye protection:** Tightly sealed goggles according to BS EN ISO 16321-1:2022.

**Body protection:** Flame retardant, antistatic and chemical resistant protective clothing.

**General protection and hygiene measures:**  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.  
 Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing.  
 When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.  
 Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

### Environmental exposure controls

See subsection 6.2

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Form: Aerosol Colour: white
Odour:	Characteristic
Odour threshold:	Not determined
pH:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not applicable
Flash point/flash point range:	(Propellent) -82 °C
Evaporation rate:	Not applicable
Flammability:	Extremely flammable aerosol.
Explosion limits:	LEL (Lower Explosion Limit): Not determined UEL (Upper Explosive Limit): Not determined
Vapour pressure:	Not determined
Vapour density:	Not determined
Density:	at 20 °C: 0.75 g/mL
Water solubility:	Slightly miscible
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	No data available
Viscosity, dynamic:	Not determined
Viscosity, kinematic:	Not determined
Explosive properties:	Product is not explosive. Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available

### 9.2 Other information

Additional information: No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Extremely flammable aerosol.  
Vapours can form explosive mixtures with air.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Pressurised container: May burst if heated.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 10.5 Incompatible materials

No data available

## 10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition: No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

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): STOT SE 3; H336 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

Other information: Information about Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

LD50 Rat, oral: > 5,000 mg/kg

LD50 Rabbit, dermal: > 5,000 mg/kg

LC50 Rat, inhalative: 4,951 mg/L

Information about Cyclohexane:

LD50 Rat, oral: 12,705 mg/kg

### Symptoms

Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Higher doses may lead to a narcotic effect.

After contact with skin: The product is skin resorptive.

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



## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.  
Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:  
Fish toxicity:  
LC50 Oncorhynchus mykiss: > 13.4 mg/L/96h  
NOEC Oncorhynchus mykiss: 1.543 mg/L/28d  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 3.0 mg/L/48h  
NOEC Daphnia magna (Big water flea): 1 mg/L/21d  
Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane:  
Fish toxicity:  
LC50 Oncorhynchus mykiss: 18.27 mg/L/96h  
NOEC Oncorhynchus mykiss: 4.089 mg/L/28d  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 31.9 mg/L/48h  
NOEC Daphnia magna (Big water flea): 7.138 mg/L/21d

### 12.2 Persistence and degradability

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

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
Not determined

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.  
Avoid spills and leaks. Very small amounts contaminates drinking water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 16 05 04\* = Gases in pressure containers (including halons) containing hazardous substances/Aerosol  
\* = Evidence for disposal must be provided.

Recommendation: Do not pierce or burn, even after use.  
Special waste. Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

#### Package

Waste key number: 15 01 10\* = packaging containing residues of or contaminated by dangerous substances  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.  
Empty carefully and completely, if possible. Handle empty containers with care. Incineration may cause explosion.

**SECTION 14: Transport information****14.1 UN number**

ADR/RID, IMDG, IATA-DGR: UN 1950

**14.2 UN proper shipping name**

ADR/RID: UN 1950, AEROSOLS

IMDG: UN 1950,

AEROSOLS (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C6, isoalkanes, &lt; 5% n-hexane), MARINE POLLUTANT

IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

**14.3 Transport hazard class(es)**

ADR/RID: Class 2, Code: 5F

IMDG: Class 2.1, Subrisk -

IATA-DGR: Class 2.1

**14.4 Packing group**

ADR/RID, IATA-DGR: not applicable

IMDG: -

**14.5 Environmental hazards**

Marine pollutant: yes

**14.6 Special precautions for user****Land transport (ADR/RID)**

Warning board: RID: Kemmler-number 23, UN number UN 1950  
Hazard label: 2.1  
Special Provisions: 190 327 344 625  
Limited quantities: 1 L  
EQ: E0  
Package - Instructions: P207 LP200  
Package - Special Provisions: PP87 RR6 L2  
Special provisions for packing together: MP9  
Tunnel restriction code: D

**Sea transport (IMDG)**

EmS: F-D, S-U  
Special Provisions: 63 190 277 327 344 381 959  
Limited quantities: 1000 mL  
Excepted quantities: E0  
Package - Instructions: P207, LP200  
Package - Provisions: PP87, L2  
IBC - Instructions: -  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: -  
Tank instructions - Provisions: -  
Stowage and handling: SW1 SW22  
Segregation: SG69  
Properties and observations: -  
Segregation group: none

**Air transport (IATA)**

Hazard label:	Flamm. gas
Excepted Quantity Code:	E0
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only:	Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisions:	A145 A167 A802
Emergency Response Guide-Code (ERG):	10L

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available

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

Hazchem-Code: -  
No data available

**National regulations - EC member states**

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Physical hazards: Code P3a, Quantity threshold 150 000 kg / 500 000 kg

Environmental hazards: Code E2, Quantity threshold 200 000 kg / 500 000 kg

Use restriction according to REACH annex XVII, no.: 3, 40, 75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: P3a, E2

**15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.

**SECTION 16: Other information****Further information**

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

H220 = Extremely flammable gas.

H222 = Extremely flammable aerosol.

H225 = Highly flammable liquid and vapour.

H226 = Flammable liquid and vapour.

H229 = Pressurised container: May burst if heated.

H280 = Contains gas under pressure; may explode if heated.

H304 = May be fatal if swallowed and enters airways.

H315 = Causes skin irritation.

H336 = May cause drowsiness or dizziness.

H361f = Suspected of damaging fertility.

H373 = May cause 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.

EUH066 = Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms: 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  
Aerosol: Aerosol  
Aquatic Acute: Hazardous to the aquatic environment - acute  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
Asp. Tox.: Aspiration toxicity  
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  
EC50: Effective Concentration 50%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Flam. Gas: Flammable gases  
Flam. Liq.: Flammable liquid  
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  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
M-factor: Multiplication factor  
NOEC: No Observed Effect Concentration  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
Press. Gas: Gases under pressure  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
Repr.: Reproductive toxicity  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Irrit.: Skin irritation  
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

Reason of change: Changes in section 14: General revision  
Date of first version: 16/3/2021

**Department issuing data sheet**

Contact person: see section 1: Department responsible for information

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.