

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Graffiti Remover

Revision date:	30/12/2022
Version:	1.2
Replaces vers	ion: 1.1
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name:

Graffiti Remover

This safety data sheet pertains to the following products: 408113 = Graffiti Remover

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

General use:	Cleaning 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 175Postal Code, city:6374 AC Landgraaf
NetherlandsWWW:www.berner.nlE-mail:info@berner.nlTelephone:+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; H229Extremely flammable aerosol. Pressurised container: May burst if heated.Eye Irrit. 2; H319Causes serious eye irritation.Repr. 2; H361dSuspected of damaging the unborn child.STOT SE 3; H336May cause drowsiness or dizziness.(EUH066)Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling (CLP)



Signal word:	Danger	
Hazard statements:	H222	Extremely flammable aerosol.
	H229	Pressurised container: May burst if heated.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	H361d	Suspected of damaging the unborn child.
	EUH066	Repeated exposure may cause skin dryness or cracking.



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Precautionary statements:	P201	Obtain special instructions before use.
	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 spray.
	P280	Wear protective gloves/protective clothing/eye protection.
	P308+P313	IF exposed or concerned: Get medical advice/attention.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Special labelling		
Text for labelling:	Contains: Butanone	

Butanone

4-Hydroxy-4-methylpentan-2-one

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.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

		ED Environment
78-93-3 Butanone	List II	

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 01-2119457290-43-xxxx EC No. 201-159-0 CAS 78-93-3	Butanone Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336. (EUH066).	< 50 %
REACH 01-2119473975-21-xxxx EC No. 204-626-7 CAS 123-42-2	4-Hydroxy-4-methylpentan-2-one Flam. Liq. 3; H226. Eye Irrit. 2; H319. Repr. 2; H361. STOT SE 3; H335. Specific concentration limits (SCL): Eye Irrit. 2; H319: C \geq 10 %	< 10 %
REACH 01-2119474691-32-xxxx EC No. 203-448-7 CAS 106-97-8	Butane, <0,1% Butadiene Flam. Gas 1; H220. Press. Gas (Comp.); H280.	< 25 %
REACH 01-2119486944-21-xxxx EC No. 200-827-9 CAS 74-98-6	Propane Flam. Gas 1; H220. Press. Gas (Comp.); H280.	< 10 %
REACH 01-2119485395-27-xxxx EC No. 200-857-2 CAS 75-28-5	i-Butane, <0,1% Butadiene Flam. Gas 1; H220. Press. Gas (Comp.); H280.	< 2.5 %

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

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Additional information:

Contains (2-Methoxymethylethoxy)propanol The maximum workplace exposure limits are, where necessary, listed in section 8.

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

- 30 % and more aliphatic hydrocarbons

SECTION 4: First aid measures

4.1 Description of first aid measures

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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. Take off contaminated clothing. 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. In case of eye irritation 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 cause drowsiness or dizziness		

May cause drowsiness or dizziness. Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.

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: Water spray jet, extinguishing powder, alcohol resistant foam, 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

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:

 Additional information:
 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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid exposure. Do not breathe spray. Avoid contact with the substance. If possible, eliminate leakage. Eliminate all ignition sources if safe to do so. Ventilate affected area. 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

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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. Do not remove residual product with water and detergent. In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

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: Obtain special instructions before use. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Do not breathe 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.

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.
 Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
34590-94-8	(2- Methoxymethylethoxy) propanol	Great Britain: WEL-TWA	308 mg/m³; 50 ppm (may be absorbed through the skin)
78-93-3	Butanone	Great Britain: WEL-STEL Great Britain: WEL-TWA	899 mg/m³; 300 ppm 600 mg/m³; 200 ppm
123-42-2	4-Hydroxy-4- methylpentan-2-one	Great Britain: WEL-STEL	362 mg/m³; 75 ppm
		Great Britain: WEL-TWA	241 mg/m³; 50 ppm
106-97-8	Butane, <0,1% Butadiene	Great Britain: WEL-STEL	1810 mg/m³; 750 ppm
		Great Britain: WEL-TWA	1450 mg/m³; 600 ppm

Biological limit values:

CAS No.	Designation	Туре	Limit value	Parameter	Sampling
78-93-3	Butanone	Great Britain: BMGV, urine	70 µmol/L	butan 2-one	end of exposure or end of shift

DNEL/DMEL: Information about Butanone:

DNEL/DMEL:	Information about Butanone: DNEL consumers, long-term, systemic, oral: 31 mg/kg bw/d m ³ DNEL consumers, long-term, systemic, dermal: 412 mg/kg bw/d m ³ DNEL workers, long-term, systemic, dermal: 1,161 mg/kg bw/d DNEL consumers, long-term, systemic, inhalative: 106 mg/m ³ DNEL workers, long-term, systemic, inhalative: 600 mg/m ³
	Information about 4-Hydroxy-4-methylpentan-2-one: DNEL consumers, long-term, systemic, oral: 1.67 mg/kg bw/d m ³ DNEL consumers, long-term, systemic, dermal: 33 mg/kg bw/d m ³ DNEL workers, long-term, systemic, dermal: 467 mg/kg bw/d DNEL workers, short-term, local, inhalative: 240 mg/m ³ DNEL consumers, long-term, systemic, inhalative: 5.8 mg/m ³ DNEL workers, long-term, systemic, inhalative: 32.6 mg/m ³
PNEC:	Information about 4-Hydroxy-4-methylpentan-2-one: PNEC water (freshwater): 2 mg/L PNEC water (marine water): 0.2 mg/L PNEC sewage treatment plant: 100 mg/L PNEC sediment (freshwater): 7.4 mg/kg dw PNEC sediment (marine water): 0.74 mg/kg dw PNEC soil: 0.3 ug/kg dw

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. 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.

Use filter type A2/P2 according to EN 14387.

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Hand protection:	Protective gloves according to EN 374. Glove material: Nitrile rubber - Layer thickness: ≥ 0.5 mm. 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:	Wear suitable protective clothing.
General protection and hygier	 ^{ne measures:} Obtain special instructions before use. 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. Do not breathe 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

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Refer to "6.2 Environmental precautions".

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: colourless
Odour: Odour threshold:	Characteristic Not determined
pH: Melting point/freezing point: Initial boiling point and boiling range: Flash point/flash point range:	No data available No data available -44.5 °C -97 °C
Evaporation rate:	No data available
Flammability: Explosion limits:	Extremely flammable aerosol. LEL (Lower Explosion Limit): 1.10 Vol-% UEL (Upper Explosive Limit): 14.00 Vol-%
Vapour pressure: Vapour density: Density:	at 20 °C: 2100 hPa No data available at 20 °C: 0.77 g/mL
Water solubility:	slightly miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature: Decomposition temperature:	Not self-igniting No data available
Viscosity, dynamic:	4000 - 6000 (Brookfield sp3 12 rpm) 7500 - 10500 (Brookfield sp3 6 rpm)
Explosive properties:	Product is not explosive. Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available
9.2 Other information	
Ignition temperature:	270 °C
Solvent content:	100 %

0 %

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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

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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: Based on available data, the classification criteria are not met. Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

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: Repr. 2; H361d = Suspected of damaging the unborn child.

Effects on or via lactation: Based on available data, the classification criteria are not met.

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



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Other information:	Information about Butanone: LD50 Rat, oral: 2,193 mg/kg (OECD 423) LD50 Rabbit, dermal: ≥ 5,000 mg/kg (OECD 402)
	Information about 4-Hydroxy-4-methylpentan-2-one: LD50 Rat, oral: 3,002 mg/kg (OECD 401) NOAEL Rat, oral: 300 mg/kg LD50 Rabbit, dermal: 13,750 mg/kg
0	

Symptoms

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Further details:

 	Information about Butanone: Fish toxicity: LC50 Pimephales promelas (fathead minnow): 2,993 mg/L/96h Daphnia toxicity: EC50 Daphnia magna (Big water flea): 308 mg/L/48h
 	Information about 4-Hydroxy-4-methylpentan-2-one: Fish toxicity: LC50 Oryzias latipes: > 100 mg/L/96h Daphnia toxicity:
	EC50 Daphnia magna (Big water flea): > 1,000 mg/L/48h NOEC Daphnia magna (Big water flea): 100 mg/L/21d Algae toxicity: EC50: 1,000 mg/L/72h NOEC Pseudokirchneriella subcapitata (green algae): 1,000 mg/L/72h
I	Product is not readily biodegradable.

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

No data available

12.6 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:	16 05 04* =	Gases in pressure containers (including halons) containing hazardous	
		substances/Aerosol	
		* = Evidence for disposal must be provided.	

14.1 UN number

Recommendation:

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

14.2 UN proper shipping name

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ADR/RID, IMDG:	UN 1950,	AEROSOLS	
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:

14.6 Special precautions for user

no

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



	Special waste. Dispose of waste according to applicable legislation. Do not dispose of with household waste.
Package	
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

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Do not pierce or burn, even after use.



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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

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

10L

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

Emergency Response Guide-Code (ERG):

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

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

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

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Further information

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

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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.
- H319 = Causes serious eye irritation.
- H335 = May cause respiratory irritation.
- H336 = May cause drowsiness or dizziness.

H361 = Suspected of damaging fertility or the unborn child.

H361d = Suspected of damaging the unborn child.

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 AS/NZS: Australian Standards/New Zealand Standards 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 Eye Irrit .: Eye irritation Flam. Gas: Flammable gases Flam, Lig.: 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 I D50: Lethal dose 50% LEL: Lower Explosion Limit MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships NOAEL: No Observed Adverse Effect Level NOEC: No Observed Effect Concentration OECD: Organisation for Economic Co-operation and Development 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 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: General revision

Date of first version:

Department issuing data sheet

11/8/2021

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.