



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

OPN-Rust Remover MOS 2

Version number: 5.0
Revision: 2022-11-29

Date of compilation: 2015-12-01

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

- 1.1 Product identifier
Trade name OPN-Rust Remover MOS 2

Unique formula identifier (UFI) 59JD-X52Q-6000-HSVV
Other means of identification
Article number 60501
Tariff No. 34031980
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses Cleaning agent
Industrial use
Professional use
Consumer use (private households)

Sector of use Rustremover
Uses advised against Do not use for products which come into contact with foodstuffs
- 1.3 Details of the supplier of the safety data sheet
OPN-CHEMIE GmbH
In der Au 14
57290 Neunkirchen

www.opn-chemie.de
Competent person responsible for the safety data sheet Barbara Angelika Gros-Petri
e-mail (competent person) baerbel.petri@opn-chemie.de
- 1.4 Emergency telephone number
Emergency information service Poison Information Center Freiburg +49(0)761/19240

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Hazard class and category	Hazard statement
2.3	Aerosols	Aerosol 1	H222,H229
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	STOT SE 3	H336
4.1C	Hazardous to the aquatic environment - chronic hazard	Aquatic Chronic 2	H411

Code	Supplemental hazard information
EUH066	Repeated exposure may cause skin dryness or cracking

Remarks

For full text of abbreviations: see SECTION 16
The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

- 2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS02, GHS07, GHS09



Hazard statements

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

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Precautionary statements

P102 Keep out of reach of children.
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.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P312 Call a POISON CENTER/doctor if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501 Dispose of contents / container in accordance with national regulations of the disposal.

Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.
Buildup of explosive mixtures possible without sufficient ventilation.

Hazardous ingredients for labelling

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics
(2-25%)

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients









3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

Mixture of substances listed below with nonhazardous additions

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC No 920-750-0 REACH Reg. No 01-2119473851- 33-xxxx	25 – < 50	Flam. Liq. 2 / H225 STOT SE 3 / H336 Aquatic Chronic 2 / H411	  
Butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691- 32-xxxx	25 – < 50	Flam. Gas 1A / H220 Press. Gas L / H280	 
Propane	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944- 21-xxxx	5 – < 10	Flam. Gas 1A / H220 Press. Gas C / H280	 
Distillates (petroleum), solvent-dewaxed light paraffinic	CAS No 64742-56-9 EC No 265-159-2 REACH Reg. No 01-2119480132- 48-xxxx	5 – < 10	Asp. Tox. 1 / H304	




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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC No 925-653-7 REACH Reg. No 01-2119458869-15-xxxx	1 – < 5	Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC No 919-446-0 REACH Reg. No 01-2119458049-33-xxxx	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H332 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
Isobutane	CAS No 75-28-5 EC No 200-857-2 REACH Reg. No 01-2119485395-27-xxxx	1 – < 5	Flam. Gas 1A / H220 Press. Gas C / H280	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Distillates (petroleum), solvent-dewaxed light paraffinic	-	-	2.18 mg/l/4h	Inhalation: dust/mist
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	-	>13.1 mg/l/4h	Inhalation: vapour

3.3 Remarks

For full text of abbreviations: see SECTION 16

3.4 Regulation (EC) no. 648/2004 on detergents / Labelling for contents

Aliphatic hydrocarbons.
Aromatic hydrocarbons.

30 % and more.
Less than 5 %.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Firefighting measures

- 5.1 Extinguishing media
Suitable extinguishing media
Water spray. BC-powder.
Unsuitable extinguishing media
Water jet.
- 5.2 Special hazards arising from the substance or mixture
In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.
Hazardous combustion products
Carbon monoxide (CO). Carbon dioxide (CO₂).
- 5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Remove persons to safety.
For emergency responders
Wear breathing apparatus if exposed to vapours/dust/spray/gases.
- 6.2 Environmental precautions
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.
- 6.3 Methods and material for containment and cleaning up
Advice on how to contain a spill
Covering of drains.
Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.
- 6.4 Reference to other sections
Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
Recommendations
Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.
Advice on general occupational hygiene
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.
- 7.2 Conditions for safe storage, including any incompatibilities
Managing of associated risks
Storage class (LGK)
2 B
• Flammability hazards
Do not spray on an open flame or other ignition source. Protect from sunlight.
Consideration of other advice
• Packaging compatibilities
Only packagings which are approved (e.g. acc. to ADR) may be used.
- 7.3 Specific end use(s)
No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

This information is not available.

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		DNEL	2,035 mg/m ³	Human, inhalatory	Worker (industry)	Chronic - systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		DNEL	773 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	44 mg/kg	Human, dermal	Worker (industry)	Chronic - systemic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	330 mg/m ³	Human, inhalatory	Worker (industry)	Chronic - systemic effects

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Do not spray in eyes. If required use tight-fitting goggles.

Skin protection

Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

Type of material

NBR: acrylonitrile-butadiene rubber.

Material thickness

> 0,7 mm

Breakthrough times of the glove material

>480 minutes (permeation: level 6)

Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Operate if possible out of doors or in a well-ventilated place. In case of inadequate ventilation wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- | | |
|---|---|
| Physical state | Aerosol (Spray aerosol) |
| Colour | Light brown |
| Odour | Characteristic |
| Initial boiling point and boiling range | Not applicable, as aerosol.* |
| Flammability (solid, gas) | flammable aerosol in accordance with GHS criteria |
| Explosive limits | 0.6 vol% - 15 vol% |
| Flash point | Not applicable, as aerosol.* |
| Water solubility | Insoluble |
| Vapour pressure | 3.8 bar at 20 °C
6.8 bar at 50 °C |
| Density | 0.68 g/ml at 20 °C |
- 9.2 Other information
Other safety characteristics
- * The finished mixture in an aerosol container is formed after addition of propellant. Several details are not measurable in an hermetic closed, pressurized container.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.
- 10.2 Chemical stability
See below "Conditions to avoid".
- 10.3 Possibility of hazardous reactions
No known hazardous reactions.
- 10.4 Conditions to avoid
Do not spray on an open flame or other ignition source. Keep away from heat.
Hints to prevent fire or explosion
Protect from sunlight.
Physical stresses which might result in a hazardous situation and have to be avoided
High temperatures.
- 10.5 Incompatible materials
Oxidisers.
- 10.6 Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Test data are not available for the complete mixture.
Classification procedure
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).
Classification according to GHS (1272/2008/EC, CLP)
Acute toxicity
Shall not be classified as acutely toxic.
GHS of the United Nations, annex 4. May be harmful in contact with skin.

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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Inhalation: dust/mist	2.18 mg/l/4h
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		Inhalation: vapour	>13.1 mg/l/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

• Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK (Germany) 2, obviously hazardous to water

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		EL50	1.6 mg/l	Aquatic invertebrates	21 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		EC50	0.23 mg/l	Aquatic invertebrates	21 d

12.2 Persistence and degradability

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Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		Oxygen depletion	83 %	16 d		ECHA

12.3 Bioaccumulative potential

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Butane	106-97-8		1.09 (pH value: 7, 20 °C)	
Propane	74-98-6		1.09 (pH value: 7, 20 °C)	
Isobutane	75-28-5		1.09 (pH value: 7, 20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

15 01 04 Metallic packaging

15 01 10 Packaging containing residues of or contaminated by dangerous substances

16 05 04 Containing hazardous gases in pressure containers (including halons)

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN

UN
1950

IMDG-Code

UN
1950

ICAO-TI

UN
1950

14.2 UN proper shipping name

ADR/RID/ADN

AEROSOLS

IMDG-Code

AEROSOLS

ICAO-TI

Aerosols, flammable

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14.3	Transport hazard class(es)	2
	ADR/RID/ADN	(2.1)
	IMDG-Code	2.1
	ICAO-TI	2.1
14.4	Packing group	Not assigned
14.5	Environmental hazards	Hazardous to the aquatic environment
14.6	Special precautions for user	
	Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7	Maritime transport in bulk according to IMO instruments	
	The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)Additional information

Classification code	5F
Danger label(s)	2.1
	Fish and tree



Environmental hazards	Yes (hazardous to the aquatic environment)
Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D
International Maritime Dangerous Goods Code (IMDG)Additional information	
Marine pollutant	Yes (hazardous to the aquatic environment)
Danger label(s)	2.1
	Fish and tree



Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-
International Civil Aviation Organization (ICAO-IATA/DGR)Additional information	
Environmental hazards	Yes (hazardous to the aquatic environment)
Danger label(s)	2.1



Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	Relevant provisions of the European Union (EU)	
	List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list	
	none of the ingredients are listed	
	Directive 75/324/EEC relating to aerosol dispensers	
	Classification of the gas/aerosol	Extremely flammable
	Labelling	Keep out of reach of children. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.
	Additional information	-

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Industrial Emissions Directive (IED)

VOC content 91.69 %

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

none of the ingredients are listed

Regulation 648/2004/EC on detergents

Labelling of contents.

Aliphatic hydrocarbons.

30 % and more.

Aromatic hydrocarbons.

Less than 5 %.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Germany)

Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water)(AwSV)

Water hazard class 2 (obviously hazardous to water)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	Organic substances		≥ 25 wt%	0.5 kg/h	50 mg/m ³	3)

Notation

3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 2 B (Aerosol dispensers and lighters)

National inventories

Country	Inventory	Status
EU	REACH Reg.	Not all ingredients are listed

Legend

REACH Reg. REACH registered substances

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Alignment to regulation. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

Einfügung: UFI: 59JD-X52Q-6000-HSVV

16.2 Abbreviations and acronyms

Acute Tox.	Acute toxicity.
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN).
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard.
Asp. Tox.	Aspiration hazard.
ATE	Acute Toxicity Estimate.
BCF	Bioconcentration factor.
BOD	Biochemical Oxygen Demand.
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
COD	Chemical oxygen demand.

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DGR	Dangerous Goods Regulations (see IATA/DGR).
DMEL	Derived Minimal Effect Level.
DNEL	Derived No-Effect Level.
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval.
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
EINECS	European Inventory of Existing Commercial Chemical Substances.
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms.
ELINCS	European List of Notified Chemical Substances.
EmS	Emergency Schedule.
Flam. Gas	Flammable gas.
Flam. Liq.	Flammable liquid.
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA	International Air Transport Association.
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO	International Civil Aviation Organization.
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air.
IMDG	International Maritime Dangerous Goods Code.
IMDG-Code	International Maritime Dangerous Goods Code.
LGK	Lagerklasse (storage class according to TRGS 510, Germany).
Log KOW	n-Octanol/water.
NLP	No-Longer Polymer.
PBT	Persistent, Bioaccumulative and Toxic.
PNEC	Predicted No-Effect Concentration.
Press. Gas	Gas under pressure.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
STOT SE	Specific target organ toxicity - single exposure.
SVHC	Substance of Very High Concern.
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
VOC	Volatile Organic Compounds.
VPvB	Very Persistent and very Bioaccumulative.

16.3 Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).

16.4 Classification procedure

Physical and chemical properties. The classification is based on tested mixture.
Health hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

16.5 List of relevant phrases (code and full text as stated in section 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.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.