



# Safety Data Sheet

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

## OPN-Lubricating Metal Assembly Spray Alu-Paste - ANTI-SEIZE

Version number: 5.0  
Revision: 2024-01-12

Date of compilation: 2015-06-26

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

1.1	Product identifier Trade name	OPN-Lubricating Metal Assembly Spray Alu-Paste - ANTI-SEIZE
	Unique formula identifier (UFI)	25AG-259P-F00W-15MD
	Other means of identification Article number	61501
	Tariff No	34039900
1.2	Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses	Industrial use Professional use Consumer use (private households) Metal containing lubricant 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 e-mail (competent person)	Barbara Angelika Gros-Petri 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
3.2	Skin corrosion/irritation	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	Eye Irrit. 2	H319
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 3	H412

#### 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



#### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful 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.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 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

Buildup of explosive mixtures possible without sufficient ventilation.

### Hazardous ingredients for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
Acetone

### 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.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

## 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
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	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC No 921-024-6  REACH Reg. No 01-2119475514-35-xxxx	10 – < 25	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
Propane	CAS No 74-98-6  EC No 200-827-9  REACH Reg. No 01-2119486944-21-xxxx	10 – < 25	Flam. Gas 1A / H220 Press. Gas C / H280	
Acetone	CAS No 67-64-1  EC No 200-662-2  REACH Reg. No 01-2119471330-49-xxxx 01-2119498062-37-xxxx	5 – < 10	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	


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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
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	

- 3.3 Remarks  
For full text of abbreviations: see SECTION 16

### 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. In case of respiratory tract irritation, consult a physician. 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

### 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 (CO<sub>2</sub>).
- 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.

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### 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.

### SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters  
National limit values  
Occupational exposure limit values (Workplace Exposure Limits)  
this information is not available  
Relevant DNELs/DMELs/PNECs and other threshold levels  
Relevant DNELs of components of the mixture

Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		DNEL	2,035 mg/m <sup>3</sup>	Human, inhalatory	Worker (industry)	Chronic - systemic effects

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		DNEL	773 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects
Acetone	67-64-1	DNEL	1,210 mg/m <sup>3</sup>	Human, inhalatory	Worker (industry)	Chronic - systemic effects
Acetone	67-64-1	DNEL	2,420 mg/m <sup>3</sup>	Human, inhalatory	Worker (industry)	Acute - local effects
Acetone	67-64-1	DNEL	186 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects

Relevant PNECs of components of the mixture

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Acetone	67-64-1	PNEC	100 mg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)
Acetone	67-64-1	PNEC	21 mg/l	Aquatic organisms	Water	Intermittent release
Acetone	67-64-1	PNEC	10.6 mg/l	Aquatic organisms	Freshwater	Short-term (single instance)
Acetone	67-64-1	PNEC	1.06 mg/l	Aquatic organisms	Marine water	Short-term (single instance)
Acetone	67-64-1	PNEC	100 mg/l	Aquatic organisms	Sewage treatment plant (STP)	Short-term (single instance)
Acetone	67-64-1	PNEC	30.4 mg/kg	Aquatic organisms	Freshwater sediment	Short-term (single instance)
Acetone	67-64-1	PNEC	3.04 mg/kg	Aquatic organisms	Marine sediment	Short-term (single instance)
Acetone	67-64-1	PNEC	29.5 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)

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

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### 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Aerosol (Spray aerosol)
Colour	Silver
Odour	Product specific
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	4 bar at 20 °C 7 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.

#### Skin corrosion/irritation

Causes skin irritation.

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Serious eye damage/eye irritation  
Causes serious eye irritation.  
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.

### 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Harmful 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					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		EL50	12 mg/l	Aquatic invertebrates	24 h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		EC50	0.23 mg/l	Aquatic invertebrates	21 d
Acetone	67-64-1	EC50	61.15 g/l	Microorganisms	30 min

### 12.2 Persistence and degradability

Degradability of components						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		Oxygen depletion	83 %	16 d		
Acetone	67-64-1	Carbon dioxide generation	90.9 %	28 d		ECHA

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### 12.3 Bioaccumulative potential

Bioaccumulative potential of components				
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)	
Acetone	67-64-1		-0.23	963.5
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

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

### 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/packages

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

### 14.3 Transport hazard class(es)

ADR/RID/ADN

2  
(2.1)

IMDG-Code

2.1

ICAO-TI

2.1

### 14.4 Packing group

Not assigned

### 14.5 Environmental hazards

Non-environmentally hazardous acc. to the dangerous goods regulations



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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



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 -  
Danger label(s) 2.1



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  
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)

Restrictions according to REACH, Annex XVII

none of the ingredients are listed

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 -

Industrial Emissions Directive (IED)

VOC content 78.36 %

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

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Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

Meldepflichtige Ausgangsstoffe für Explosivstoffe gemäß Anhang II:

Substance is listed: Aceton (CAS-Nr. 67-64-1). Aluminium, Pulver (CAS-Nr. 7429-90-5).

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 <sup>3</sup>	3)

Notation

3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, 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)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.	Yes

### 16.2 Abbreviations and acronyms

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.
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.
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).
ED	Endocrine disruptor.
EINECS	European Inventory of Existing Commercial Chemical Substances.

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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.
Eye Dam.	Seriously damaging to the eye.
Eye Irrit.	Irritant to the eye.
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).
Skin Corr.	Corrosive to skin.
Skin Irrit.	Irritant to skin.
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.
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.
H319	Causes serious eye irritation.
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.