

according to Regulation (EC) No. 1907/2006 (REACH)

Version number: GHS 10.0 Revision: 2023-11-13 Replaces version of: 2023-09-06 (GHS 9)

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

1.1 Product identifier

Trade name PROMAT CHEMICALS KUPFERPASTENSPRAY - 400 ml

Unique formula identifier (UFI) Y190-A098-Y00R-9SX8

Article number 4000 354020

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

Relevant identified uses General use Lubricant

1.3 Details of the supplier of the safety data sheet

NORDWEST Handel AG Robert-Schuman-Straße 17 44263 Dortmund Germany

Telephone: +49 (0)231 2222-3001 Telefax: +49 (0)231 2222-3099 e-mail: sdb@nordwest.com Website: www.nordwest.com

e-mail (competent person) sdb@nordwest.com

1.4 Emergency telephone number

Poison centre							
Country	Name	Postal code/city	Telephone				
Austria	Vergiftungsinformationszentrale (VIZ)		+43 (0)1 406 43 43				
Germany	Gemeinsamen Giftinformationszentrum (GGIZ) der Laender Mecklenburg-Vorpommern, Sach- sen, Sachsen-Anhalt und Thueringen c/o HE- LIOS Klinikum Erfurt	99089 Erfurt	+49-361-730730				
Switzerland	Tox Info Suisse		+145, 24h oder +41 44 251 51 51				

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
2.3	aerosols	1	Aerosol 1	H222,H229
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

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 Pictograms

danger

GHS02, GHS07, GHS09

#### **Hazard statements**

H222 H229 H315 H336 Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation.

H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

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### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

P101 P102 P210 P211 P251 P261 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.

P271

P280

P302+P352

Wear protective gloves.

IF ON SKIN: Wash with plenty of water/...

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Dispose of contents/container in accordance with local/regional/international regulations. P410+P412 P501

Hazardous ingredients for labelling Naphtha (petroleum), hydrotreated light, propan-2-ol

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq$  0,1%.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

### SECTION 3: Composition/information on ingredients

#### **Substances**

Not relevant (mixture)

#### 3.2 **Mixtures**

#### Description of the mixture

Identifier	Name of substance	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits
CAS No 64742-49-0 EC No 265-151-9 Index No 649-328-00-1	Naphtha (petroleum), hydro- treated light	25 - < 50	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		P(b)	
CAS No 106-97-8 EC No 203-448-7 Index No 601-004-01-8	butane	10 - < 25	Flam. Gas 1B / H221 Press. Gas C / H280	<b>&amp;</b>	C GHS-HC U(b)	
CAS No 74-98-6 EC No 200-827-9 Index No 601-003-00-5 REACH Reg. No 01-2119486944- 21	propane	10 - < 25	Flam. Gas 1A / H220 Press. Gas L / H280		GHS-HC U(c)	
CAS No 67-63-0 EC No 200-661-7 Index No 603-117-00-0 REACH Reg. No 01-2119457558- 25 01-2119457558- 25-xxxx	propan-2-ol	1-<5	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336		GHS-HC	

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Identifier	Name of substance	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits
CAS No 7440-50-8	Copper	1 – < 5	Acute Tox. 4 / H302 Acute Tox. 3 / H331 Eye Irrit. 2 / H319			
EC No 231-159-6			Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	$\vee \vee$		
Index No 029-024-00-X						
REACH Reg. No 01-2119480154- 42-xxxx						
CAS No 90640-32-7	Amines, C16-18-alkyl	<1	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT RE 2 / H373			
EC No 292-550-5			Asp. Tox. 1 / H304 Aquatic Acute 1 / H400			
REACH Reg. No 01-2119473799- 15-xxxx			Aquatic Chronic 1 / H410	***		

Notes

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers. Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ GHS-

2008/EC, Annex VI)
The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements HC: P(b):

(P102-)P260-P262- P301 + P310-P331 shall apply
The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged
The allocation to the group 'liquefied gas' is based on the physical state in which the gas is packaged U(b): U(c):

Hazardous ingredients, Specific Conc. Limits, M-factors, ATE					
Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route	
Copper	-	M-factor (acute) = 10	500 <sup>mg</sup> / <sub>kg</sub> 0.5 <sup>mg</sup> / <sub>l</sub> /4h	oral inhalation: dust/mist	
Amines, C16-18-alkyl	-	M-factor (acute) = 10 M-factor (chronic) = 10	-		

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.

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

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

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

#### **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

#### Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

#### **Packaging compatibilities**

Keep only in original container.

#### Storage class (LGK) TRGS 510

LGK 2 B (aerosol dispensers and lighters)

#### 7.3 Specific end use(s)

See section 16 for a general overview.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

Occup	Occupational exposure limit values (Workplace Exposure Limits)										
Coun- try	Name of agent	CAS No	Iden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceiling- C [ppm]	Ceiling- C [mg/ m³]	Nota- tion	Source
DE	butane	106-97-8	AGW	1,000	2,400	4,000	9,600				TRGS 900
DE	propan-2-ol	67-63-0	AGW	200	500	400	1,000			Υ	TRGS 900
DE	propane	74-98-6	AGW	1,000	1,800	4,000	7,200				TRGS 900
DE	copper	7440-50-8	MAK		0.01		0.02			r	DFG

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

respirable fraction

r STEL

TWA

respiration raction short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (RGW) are adhered to

logical limit value (BGW) are adhered to

Biological limit values							
Country	Name of agent	Parameter	Notation	Identifier	Value	Source	
DE	2-propanol	acetone		BLV	25 mg/l	TRGS 903	
DE	2-propanol	acetone		BLV	25 mg/l	TRGS 903	

#### **Relevant DNELs of components**

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Naphtha (petroleum), hydrotreated light	64742-49-0	DNEL	5,306 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic ef- fects
Naphtha (petroleum), hydrotreated light	64742-49-0	DNEL	13,964 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects
propan-2-ol	67-63-0	DNEL	1,723 mg/m³	human, inhalatory	worker (industry)	acute - systemic ef- fects
propan-2-ol	67-63-0	DNEL	500 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic ef- fects
propan-2-ol	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects
Copper	7440-50-8	DNEL	20 mg/m³	human, inhalatory	worker (industry)	acute - systemic ef- fects
Copper	7440-50-8	DNEL	137 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects
Copper	7440-50-8	DNEL	273 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic ef- fects
Amines, C16-18-alkyl	90640-32-7	DNEL	0.38 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic ef- fects
Amines, C16-18-alkyl	90640-32-7	DNEL	0.09 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant PNECs of components							
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time	
propan-2-ol	67-63-0	PNEC	160 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	water	short-term (single ir stance)	
propan-2-ol	67-63-0	PNEC	140.9 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent release	
propan-2-ol	67-63-0	PNEC	140.9 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single in stance)	
propan-2-ol	67-63-0	PNEC	140.9 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single in stance)	
propan-2-ol	67-63-0	PNEC	2,251 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single in stance)	
propan-2-ol	67-63-0	PNEC	552 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single in stance)	
propan-2-ol	67-63-0	PNEC	552 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single in stance)	
propan-2-ol	67-63-0	PNEC	28 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single ii stance)	
Copper	7440-50-8	PNEC	7.8 <sup>µg</sup> / <sub>I</sub>	aquatic organisms	freshwater	short-term (single in stance)	
Copper	7440-50-8	PNEC	5.2 <sup>µg</sup> / <sub>I</sub>	aquatic organisms	marine water	short-term (single in stance)	
Copper	7440-50-8	PNEC	230 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single in stance)	
Copper	7440-50-8	PNEC	87 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single in stance)	
Copper	7440-50-8	PNEC	676 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single in stance)	
Copper	7440-50-8	PNEC	65 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single in stance)	
Amines, C16-18-alkyl	90640-32-7	PNEC	0.26 <sup>µg</sup> / <sub>I</sub>	aquatic organisms	freshwater	short-term (single in stance)	
Amines, C16-18-alkyl	90640-32-7	PNEC	0.026 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single in stance)	
Amines, C16-18-alkyl	90640-32-7	PNEC	550 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single in stance)	
Amines, C16-18-alkyl	90640-32-7	PNEC	179.4 <sup>µg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single ii stance)	
Amines, C16-18-alkyl	90640-32-7	PNEC	17.94 <sup>µg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single in stance)	
Amines, C16-18-alkyl	90640-32-7	PNEC	10 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single in stance)	
Amines, C16-18-alkyl	90640-32-7	PNEC	1.6 <sup>µg</sup> / <sub>I</sub>	aquatic organisms	water	intermittent release	

#### 8.2 Exposure controls

#### **Appropriate engineering controls**

General ventilation.

Individual protection measures (personal protective equipment)







Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

#### **Eye/face protection**

Use protective eyewear to guard against splash of liquids.

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Skin protection

### Hand protection

Wear protective gloves. (Splash protection)

#### Type of material

NR: natural rubber, latex, FKM: fluoro-elastomer

#### 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**

In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140).

Type: AX-P2 (gas filters and combined filters against low-boiling point organic compounds and particles, 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**

#### Information on basic physical and chemical properties

**Physical state** aerosol (spray aerosol)

Colour copper Odour characteristic Melting point/freezing point -159.4 °C

**Boiling point or initial boiling point** -161.5 °C at 1,013 hPa and boiling range

flammable aerosol in accordance with GHS criteria Flammability

Lower and upper explosion limit 50 g/m<sup>3</sup> - 335 g/m<sup>3</sup> / 1 vol% - 15 vol%

Flash point -87 °C at 1,013 hPa

264 °C (auto-ignition temperature (liquids and gases)) **Auto-ignition temperature** 

**Decomposition temperature** not relevant pH (value) not determined Kinematic viscosity not relevant Solubility(ies) not determined

**Partition coefficient** 

Partition coefficient n-octanol/water this information is not available

(log value)

Vapour pressure 4,200 hPa at 20 °C

Density and/or relative density

0.6727 - 0.6946 g/ml (calculated value) Density information on this property is not available Relative vapour density

9.2 Other information

Information with regard to physical there is no additional information

hazard classes

Other safety characteristics

Temperature class (EU, acc. to ATEX) T3 (maximum permissible surface temperature on the equipment: 200°C)

#### **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.

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#### Hints to prevent fire or explosion

Protect from sunlight.

#### 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 if inhaled.

Acute toxicity estimate (ATE) of components					
Name of substance	CAS No	Exposure route	ATE		
Copper	7440-50-8	oral	500 <sup>mg</sup> / <sub>kg</sub>		
Copper	7440-50-8	inhalation: dust/mist	0.5 <sup>mg</sup> / <sub>l</sub> /4h		

#### Skin corrosion/irritation

Causes skin irritation.

#### 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.

#### 11.2 Information on other hazards

There is no additional information.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Acc. to 1272/2008/EC: Toxic to aquatic life with long lasting effects. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany)

## Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
propan-2-ol	67-63-0	LC50	>10,000 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	24 h
Amines, C16-18-alkyl	90640-32-7	EC50	0.27 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d

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#### 12.2 Persistence and degradability

#### Degradability of components Degradation rate Time Method Name of sub-CAS No **Process** Source stance Naphtha (petro-leum), hydro-64742-49-0 83 % 10 d **FCHA** oxygen depletion treated light propan-2-ol 67-63-0 oxygen depletion 53 % 5 d **ECHA** Amines, C16-18-90640-32-7 oxygen depletion 34 % 5 d **ECHA** alkyl Amines, C16-18-90640-32-7 carbon dioxide 18 % 6 d **ECHA** generation alkyl

#### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components							
Name of substance	CAS No	BCF	Log KOW	BOD5/COD			
Naphtha (petroleum), hydrotreated light	64742-49-0	501.2	3.6 (pH value: 7, 20 °C)				
butane	106-97-8		1.09 (pH value: 7, 20 °C)				
propane	74-98-6		1.09 (pH value: 7, 20 °C)				
propan-2-ol	67-63-0		0.2 (pH value: 7, 25 °C)				
Amines, C16-18-alkyl	90640-32-7	173					

#### 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/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, (Recommendations)

#### **Product**

07 06 04\* Other organic solvents, washing liquids and mother liquors

#### **Product residues**

16 05 04\* Gases in pressure containers (including halons) containing hazardous substances 07 06 04\* Other organic solvents, washing liquids and mother liquors

#### **Packagings**

15 01 04 Metallic packaging

#### 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.

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Version number: GHS 10.0 Revision: 2023-11-13 Replaces version of: 2023-09-06 (GHS 9)

#### **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** 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



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, A167Excepted quantities (EQ)E0Limited quantities (LQ)30 kg

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### **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 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)

Pollutant release and transfer registers (PRTR)					
Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)		
Copper	7440-50-8	(8)	100		

Legend

(8) All metals shall be reported as the total mass of the element in all chemical forms present in the release

#### Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	CAS No	Listed in	Remarks	
Copper		a)		

Legend

a) Indicative list of the main pollutants

#### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK (water hazard class)

2 obviously hazardous to water

#### Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentra- tion	Notation
5.2.5	organic substances		≥ 25 wt%	0.5 <sup>kg</sup> / <sub>h</sub>	50 <sup>mg</sup> / <sub>m³</sub>	3)

#### Notation

#### **National inventories**

Country	Inventory	Status
EU	REACH Reg.	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.

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<sup>3)</sup> 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)



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### **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
1.1	Unique formula identifier (UFI): Y190-A098-Y00R-9SX8		yes
1.1		Unique formula identifier (UFI): Y190-A098-Y00R-9SX8	yes
1.2	Uses advised against: do not use for products which come into con- tact with foodstuffs		yes
1.3	Details of the supplier of the safety data sheet: NORDWEST Handel AG Robert-Schuman-Straße 17 44263 Dortmund Germany	Details of the supplier of the safety data sheet: NORDWEST Handel AG Robert-Schuman-Straße 17 44263 Dortmund Germany	yes
	Telephone: +49 (0)231 2222-3001 Telefax: +49 (0)231 2222-3099 Website: www.nordwest.com	Telephone: +49 (0)231 2222-3001 Telefax: +49 (0)231 2222-3099 e-mail: sdb@nordwest.com Website: www.nordwest.com	
1.3	e-Mail (competent person): sdb@nordwest.com		yes
1.3		e-mail (competent person): sdb@nordwest.com	yes
1.4		Poison centre: change in the listing (table)	yes
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1	Remarks: For full text of H-phrases: see SECTION 16.		yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.3	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		yes
2.2		Precautionary statements: change in the listing (table)	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes

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Does not contain a PBT-IV-PVB-substance in a concentration of ≥ 0,1%.  2.3 Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.  3.1 Substances: Obes not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.  3.2 Hazardous ingredients act, to EU regulation: when the listing (table) of change in the listing (table).  3.2 Description of the mixture: change in the listing (table) of the mixture: change in the listing (table).  4.1 Following skin contact: Wash with plenty of soap and water. Take off contaminated clothing.  4.1 Following in opestion: Following in the listing (table) of soap and water. Wash with plenty of soap and water. Take off contaminated clothing.  4.1 Following in opestion: Following in opestion: Rollowing in opestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.  4.2 Advice on how to clean up a spill: Collect spillage (universal binder).  4.3 Cansideration of other advice: Observe hints for combined storage.  4.4 Description of the mixtures: Observe hints for combined storage.  4.5 Packaging compatibilities: Only packagings which are approved (e.g. acc. of hinterin structions for use. Keep out of reach of children.  4.2 Packaging compatibilities: Not ADR) may be used.  4.3 National limit values  4.4 National limit values  4.5 Relevant DNELS/DMELS/PNECs and other threshold levels: Process of components of the mixture  4.6 Relevant DNELs of components of the mixture  4.7 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn after gloves must be worn after gloves must be worn on on teat or drink errors after gloves must be worn on on teat or drink errors after gloves must be worn on on teat or drink errors after gloves must be worn on on teat or drink errors after gloves must be worn on the process of the mixture equipment with the process of the process of the	Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
Does not contain an endocrine disruptor (ED) in a connectriation of ≥ 0,1%.  3.1  3.2  3.2  3.3  3.2  3.3  3.4  3.5  3.5  3.5  3.6  3.7  3.7  3.8  3.8  3.9  3.9  3.9  3.0  3.0  3.0  3.0  3.0	2.3		Does not contain a PBT-/vPvB-substance in a	yes
Not relevant (mixture)   Standard   Hazardous ingredients acc. to EU regulation: change in the listing (table)   Standard   Standa	2.3		Does not contain an endocrine disruptor (ED) in	yes
change in the listing (table)  Description of the mixture: change in the listing (table)  Percomposition of the mixture: change in the listing (table)  Percomposition of the mixture: change in the listing (table)  Hazardous ingredients, Specific Conc. Limits, Meractors, ATE: change in the listing (table)  Hazardous ingredients, Specific Conc. Limits, Meractors, ATE: change in the listing (table)  Following skin contact: Wash with plenty of soap and water. Take off contaminated clothing.  Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.  Advice on how to clean up a spill: Collect spillage (universal binder).  Incompatible substances or mixtures: Observe hints for combined storage.  Packaging compatibilities: Observe hints for combined storage.  Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.  Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.  Relevant DNELs/DMELs/PNECs and other threshold levels  Relevant DNELs/DMELs/PNECs and other threshold levels  Relevant DNELs/DMELs/PNECs and other threshold levels  Individual protection measures (personal protective equipment): eye protection mass to worn safety gloves must be worn on the attor drink  Packaging or specific or specific conc. Individual protection measures (personal protective equipment): eye protection mass to worn safety gloves must be worn on on eat or drink were avoided or sufficiently limited by technical measures of collective equipment shall be used when the risks cannot be worn do not eat or drink measures of collective protection or preasures, methods or procedures of work organization.	3.1			yes
Change in the listing (table)   Security	3.2		Hazardous ingredients acc. to EU regulation: change in the listing (table)	yes
factors, ATE: change in the listing (table)  4.1 Following skin contact: Wash with plenty of soap and water. Take off contaminated clothing.  4.1 Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.  6.3 Advice on how to clean up a spill: Collect spillage (universal binder).  7.2 Incompatible substances or mixtures: Observe inits for combined storage.  7.2 Consideration of other advice: Observe inits for combined storage.  7.2 - Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.  7.2 Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  8.1 National limit values  8.1 Occupational exposure limit values (Workplace Exposure Limits)  8.1 Relevant DNELs of components of the mixture  8.1 *relevant DNELs of components of the mixture  8.1 *relevant DNELs of components of the mixture  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  8.3 Events and the instinct of the mixture available used when the risks cannot be avoided or sufficiently limited by technical measures (methods or procedures of work organization.	3.2			yes
Wash with plenty of soap and water. Take off contaminated clothing.  4.1 Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.  6.3 Advice on how to clean up a spill: Collect spillage (universal binder).  7.2 Incompatible substances or mixtures: Observe hints for combined storage.  7.2 Consideration of other advice: Observe hints for combined storage.  7.2 Packaging compatibilities: Only packaging swhich are approved (e.g. acc. to ADR) may be used.  7.2 **Jeakaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.  7.2 **Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  8.1 **National limit values**  8.1 **Decupational exposure limit values (Workplace Exposure Limits)  8.1 **Relevant DNELs/DMELs/PNECs and other threshold levels  8.1 **relevant DNELs of components of the mixture  8.2 **Individual protection measures (personal protective equipment): eye protective in must be worn safety gloves must be worn do not eat or drink  **Televant on the advice of work organization.**  **Televant on the advice of wor	3.2		factors, ATE:	yes
Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.  Advice on how to clean up a spill: Collect spillage (universal binder).  7.2 Incompatible substances or mixtures: Observe hints for combined storage.  7.2 Consideration of other advice: Observe inistructions for use. Keep out of reach of children.  7.2 Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.  8.1 National limit values  8.1 Occupational exposure limit values (Workplace Exposure Limits)  8.1 Biological limit values  8.1 Relevant DNELs/DMELs/PNECs and other threshold levels  8.1 *relevant DNELs of components of the mixture  8.2 Individual protection measures (personal protective equipment): eye protection must be worn asfety gloves must be worn do not eat or drink even for a conscious). Do NOT induce vomiting.  Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.  Storage class (Lost) Three packaging compatibilities: (Seep only in original container.  Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  y  Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  y  4. Packaging compatibilities: y  y  8. Packaging compatibilities: (Seep only in original container.  y  y  Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  y  y  4. Packaging compatibilities: y  y  8. Packaging compatibilities: (Seep only in original container.  y  y  storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  y  y  storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  y  storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  y  storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  y  storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  y  storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  y  storage class (LGK) TRGS 510: LGK 2 B (aeroso	4.1	Wash with plenty of soap and water. Take off		yes
Collect spillage (universal binder).  7.2 Incompatible substances or mixtures: Observe hints for combined storage.  7.2 Consideration of other advice: Observe instructions for use. Keep out of reach of children.  7.2 Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.  7.2 Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  8.1 National limit values  8.1 Occupational exposure limit values (Workplace Exposure Limits)  8.1 Biological limit values  8.1 Relevant DNELs/DMELs/PNECs and other threshold levels  8.1 • relevant DNELs of components of the mixture  8.1 • relevant PNECs of components of the mixture  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink worn safety gloves must be worn do not eat or drink equipment): eye protection must be worn safety gloves must be worn do not eat or drink equipment be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	4.1	Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek	Rinse mouth with water (only if the person is	yes
Observe hints for combined storage.  7.2 Consideration of other advice: Observe instructions for use. Keep out of reach of children.  7.2 Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.  7.2 Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  8.1 National limit values  8.1 Occupational exposure limit values (Workplace Exposure Limits)  8.1 Biological limit values  8.1 Relevant DNELs/DMELs/PNECs and other threshold levels  8.1 • relevant PNECs of components of the mixture  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  Possible very protection or by measures, methods or procedures of work organization.	6.3	Advice on how to clean up a spill: Collect spillage (universal binder).		yes
Observe instructions for use. Keep out of reach of children.  7.2 Packaging compatibilities: Conly packagings which are approved (e.g. acc. to ADR) may be used.  7.2 Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  8.1 National limit values  8.1 Occupational exposure limit values (Workplace Exposure Limits)  8.1 Biological limit values  8.1 Relevant DNELs/DMELs/PNECs and other threshold levels  8.1 • relevant DNELs of components of the mixture  8.1 • relevant PNECs of components of the mixture  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink be worn do not eat or drink levels measures, methods or procedures of work organization.	7.2	Incompatible substances or mixtures: Observe hints for combined storage.		yes
Only packagings which are approved (e.g. acc. to ADR) may be used.  7.2 Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)  8.1 National limit values  8.1 Occupational exposure limit values (Workplace Exposure Limits)  8.1 Biological limit values  8.1 Relevant DNELs/DMELs/PNECs and other threshold levels  8.1 • relevant DNELs of components of the mixture  8.1 • relevant PNECs of components of the mixture  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink even must be worn do not eat or drink equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	7.2	Observe instructions for use. Keep out of reach		yes
8.1 National limit values  8.1 Occupational exposure limit values (Workplace Exposure Limits)  8.1 Biological limit values  8.1 Relevant DNELs/DMELs/PNECs and other threshold levels  8.1 • relevant DNELs of components of the mixture  8.1 • relevant PNECs of components of the mixture  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  8.3 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drinkPersonal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	7.2	Only packagings which are approved (e.g. acc.		yes
8.1 Biological limit values  8.1 Relevant DNELs/DMELs/PNECs and other threshold levels  8.1 • relevant DNELs of components of the mixture  8.1 • relevant PNECs of components of the mixture  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  8.3 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	7.2			yes
Exposure Limits)  8.1 Biological limit values  9. Relevant DNELs/DMELs/PNECs and other threshold levels  9. *relevant DNELs of components of the mixture  9. *relevant PNECs of components of the mixture  1. *Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  1. *Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drinkPersonal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	8.1	National limit values		yes
8.1 Relevant DNELs/DMELs/PNECs and other threshold levels  9.1 relevant DNELs of components of the mixture  1. relevant PNECs of components of the mixture  1. Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  1. Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drinkPersonal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	8.1			yes
threshold levels  • relevant DNELs of components of the mixture  • relevant PNECs of components of the mixture  • relevant PNECs of components of the mixture  Individual protection measures (personal protective equipment):  eye protection must be worn safety gloves must be worn do not eat or drink    a	8.1	Biological limit values		yes
8.1 • relevant PNECs of components of the mixture  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drinkPersonal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	8.1	Relevant DNELs/DMELs/PNECs and other threshold levels		yes
8.2 Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  Be worn do not eat or drink  Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drinkPersonal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	8.1	• relevant DNELs of components of the mixture		yes
tective equipment): eye protection must be worn safety gloves must be worn do not eat or drink  tective equipment): eye protection must be worn safety gloves must be worn do not eat or drinkPersonal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	8.1	• relevant PNECs of components of the mixture		yes
9.1 Appearance y	8.2	tective equipment): eye protection must be worn safety gloves must	tective equipment): eye protection must be worn safety gloves must be worn do not eat or drinkPersonal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures,	yes
	9.1	Appearance		yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
9.1	Odour: characteristic		yes
9.1	Other physical and chemical parameters		yes
9.1		Odour: characteristic	yes
9.1	Melting point/freezing point: -159.4 °C not applicable (aerosol)	Melting point/freezing point: -159.4 °C	yes
9.1	Initial boiling point and boiling range: not applicable (aerosol)	Boiling point or initial boiling point and boiling range: -161.5 °C at 1,013 hPa	yes
9.1	Explosive limits	Lower and upper explosion limit: 50 g/m³ - 335 g/m³ / 1 vol% - 15 vol%	yes
9.1	• lower explosion limit (LEL): 1 vol% (50 g/m³)		yes
9.1	• upper explosion limit (UEL): 15 vol% (335 g/m³)		yes
9.1	Flash point: not applicable (aerosol)	Flash point: -87 °C at 1,013 hPa	yes
9.1	Viscosity: not relevant (aerosol)		yes
9.1	Explosive properties: none		yes
9.1	Oxidising properties: none		yes
9.1		Decomposition temperature: not relevant	yes
9.1		pH (value): not determined	yes
9.1		Kinematic viscosity: not relevant	yes
9.1		Density and/or relative density	yes
9.1		Relative vapour density: information on this property is not available	yes
9.2	Other information: There is no additional information.	Other information	yes
9.2		Information with regard to physical hazard classes: there is no additional information	yes
9.2		Other safety characteristics	yes
9.2		Temperature class (EU, acc. to ATEX): T3 (maximum permissible surface temperature on the equipment: 200°C)	yes
10.4	Physical stresses which might result in a hazard- ous situation and have to be avoided: high temperatures		yes
11.1	Acute toxicity of components of the mixture		yes
11.1		Acute toxicity of components of the mixture: change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
11.1	Summary of evaluation of the CMR properties: Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.		yes
11.1	Specific target organ toxicity (STOT)		yes
11.1		Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.	yes
11.1		Carcinogenicity: Shall not be classified as carcinogenic.	yes
11.1		Reproductive toxicity: Shall not be classified as a reproductive toxicant.	yes
11.2		Information on other hazards: There is no additional information.	yes
12.1	Toxicity: Toxic to aquatic life with long lasting effects. Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 2 (obviously hazardous to water)	Toxicity: Acc. to 1272/2008/EC: Toxic to aquatic life with long lasting effects. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany)	yes
12.1	Aquatic toxicity (acute)		yes
12.1	Aquatic toxicity (acute) of components of the mixture		yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.1	Aquatic toxicity (chronic): May cause long-term adverse effects in the aquatic environment.		yes
12.1	Aquatic toxicity (chronic) of components of the mixture		yes
12.2	Degradability of components of the mixture		yes
12.3	Bioaccumulative potential of components of the mixture		yes
12.2		Degradability of components: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not con- tain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	yes
12.6	Endocrine disrupting potential: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.	yes
13.1	List of wastes: 16 05 04* gases in pressure containers (including halons) containing hazardous substances 15 01 10* packaging containing residues of or contaminated by hazardous substances	List of wastes, (Recommendations)	yes
13.1		Product: 07 06 04* Other organic solvents, washing li- quids and mother liquors	yes

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according to Regulation (EC) No. 1907/2006 (REACH)

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
13.1		Product residues: 16 05 04* Gases in pressure containers (including halons) containing hazardous substances 07 06 04* Other organic solvents, washing liquids and mother liquors	yes
13.1		Packagings: 15 01 04 Metallic packaging	yes
14.1	UN number: 1950	UN number or ID number	yes
14.1		ADR/RID/ADN: UN 1950	yes
14.1		IMDG-Code: UN 1950	yes
14.1		ICAO-TI: UN 1950	yes
14.2	UN proper shipping name: AEROSOLS	UN proper shipping name	yes
14.2		ADR/RID/ADN: AEROSOLS	yes
14.2		IMDG-Code: AEROSOLS	yes
14.2		ICAO-TI: Aerosols, flammable	yes
14.3	Class: 2 (gases) (aerosol)		yes
14.3	Subsidiary risk(s): 2.1 (flammability)		yes
14.3		ADR/RID/ADN: 2 (2.1)	yes
14.3		IMDG-Code: 2.1	yes
14.3		ICAO-TI: 2.1	yes
14.4	Packing group: not assigned to a packing group	Packing group: not assigned	yes
14.5	Environmental hazards	Environmental hazards: hazardous to the aquatic environment	yes
14.7	UN number: 1950		yes
14.7	Proper shipping name: AEROSOLS		yes
14.7	Class:		yes
14.7		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.7	UN number: 1950		yes
14.7	Proper shipping name: AEROSOLS		yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
14.7	Class: 2.1		yes
14.7		Marine pollutant: yes (hazardous to the aquatic environment)	yes
14.7	Danger label(s): 2.1	Danger label(s): 2.1, fish and tree	yes
14.7	UN number: 1950		yes
14.7	Proper shipping name: Aerosols, flammable		yes
14.7	Class: 2.1		yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.7		Danger label(s): change in the listing (table)	yes
15.1	Restrictions according to REACH, Annex XVII		yes
15.1		Restrictions according to REACH, Annex XVII: change in the listing (table)	yes
15.1	Directive 75/324/EEC relating to aerosol dispensers		yes
15.1	Classification of the gas/aerosol: extremely flammable		yes
15.1	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		yes
15.1	Net contents by volume: 400 ml		yes
15.1		• Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR): change in the listing (table)	yes
15.1		Pollutant release and transfer registers (PRTR): change in the listing (table)	yes
15.1		Regulation on persistent organic pollutants (POP): none of the ingredients are listed	yes
15.1	Storage of hazardous substances in non-sta- tionary containers (TRGS 510) (Germany)		yes
15.1	Storage class (LGK): 2 B (aerosol dispensers and lighters)		yes
15.1	National inventories		yes
15.1		National inventories: change in the listing (table)	yes
15.1		National inventories	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1		National inventories: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data: - Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU - Regulation (EC) No. 1272/2008 (CLP, EU GHS)	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).	yes

#### Abbreviations and acronyms

Abbr. Descriptions of used abbreviations.

Acute Tox. ADN.

Acute toxicity.

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).

Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Danger-

ADR.

ADR/RID/ADN

AGW.
Aquatic Acute.
Aquatic Chronic.
Asp. Tox.
ATE.
BCF.
BOD.
CAS.
Ceiling-C.
CLP.
COD.
DFG.

Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).

Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN).

Workplace exposure limit.

Hazardous to the aquatic environment - acute hazard.

Hazardous to the aquatic environment - chronic hazard.

Aspiration hazard.

Acute Toxicity Estimate.

Bioconcentration factor.

Biochemical Oxygen Demand.

Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).

Ceiling value.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Chemical oxygen demand.

Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim.

DGR

DNEL EC50.

Deutsche Forschungsgemeinschaft wark-und bat-weite-Liste, schlacksommenschaft weinheim.

Dangerous Goods Regulations (see IATA/DGR).
Derived No-Effect Level.
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.
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).
Endocrine disruptor.
Furnnean Inventory of Existing Commercial Chemical Substances.

EC No.

ED. EINECS.

ELINCS.

ELINCS. EmS. Eye Dam. Eye Irrit. Flam. Gas. Flam. Liq.

GHS. IATA.

Hammable liquid.
"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations. International Air Transport Association.

Dangerous Goods Regulations (DGR) for the air transport (IATA).
International Civil Aviation Organization.
Technical instructions for the safe transport of dangerous goods by air.
International Maritime Dangerous Goods Code.
International Maritime Dangerous Goods Code.
The Index number is the identification code given to the substance in Part 3 of Apparelle a Part 3 of Apparelle Apparelle (ISAN). IATA/DGR. ICAO. ICAO-TI. IMDG. IMDG-Code.

Index No. LC50.

The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008. Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time inter-

LGK. Log KOW. M-Factor.

NLP.

PBT. PNEC.

Ppm. Press. Gas. REACH. RID.

Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval.

Lagerklasse (storage class according to TRGS 510, Germany).

n-Octanol/water.

Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present.

No-Longer Polymer.

Persistent, Bioaccumulative and Toxic.

Predicted No-Effect Concentration.

Parts per million.

Gas under pressure.

Registration, Evaluation, Authorisation and Restriction of Chemicals.

Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).

Corrosive to skin.

Irritant to skin.

Short-term exposure limit.

Specific target organ toxicity - repeated exposure.

Specific target organ toxicity - single exposure.

Substance of Very High Concern.

Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).

Arbeitsplatzgrenzwerte (TRGS 900).

Skin Corr.

Skin Corr. Skin Irrit. STEL. STOT RE. STOT SE. SVHC. TRGS. TRGS 900. TRGS 903. Arbeitsplatzgrenzwerte (TRGS 900). Biologische Grenzwerte (TRGS 903). Time-weighted average. Very Persistent and very Bioaccumulative.

#### 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).

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### **Classification procedure**

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

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Extremely flammable gas.
Flammable gas.
Flammable gas.
Flammable iquid and vapour.
Pressurised container: May burst if heated.
Contains gas under pressure; may explode if heated.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.
Causes serious eye irritation.
Toxic if inhaled.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects. H220. H221. H222. H225. H229. H280. H302. H304. H315. H318. H319. H331. H336. H373. H4400. H411.

#### Disclaimer

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

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