

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

1.1 Product identifier

Trade name PROMAT CHEMICALS ZAHNRADSPRAY - 500 ml
Unique formula identifier (UFI) FAA0-W0N7-K005-6WP7

Article number 4000 354595

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, Sachsen, Sachsen-Anhalt und Thuringen c/o HELIOS 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 category	Hazard statement
2.3	aerosols	1	Aerosol 1	H222,H229
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
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	3	Aquatic Chronic 3	H412

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.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
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.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous ingredients for labelling

Naphtha (petroleum), hydrotreated light

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

3.1 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 106-97-8 EC No 203-448-7 Index No 601-004-01-8	butane	25 – < 50	Flam. Gas 1B / H221 Press. Gas C / H280	 	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 64742-65-0 EC No 265-169-7 Index No 649-474-00-6 REACH Reg. No 01-2119471299-27	Distillates (petroleum), solvent-dewaxed heavy paraffinic	10 – < 25	Asp. Tox. 1 / H304			
CAS No 64742-49-0 EC No 265-151-9 Index No 649-328-00-1	Naphtha (petroleum), hydro-treated light	10 – < 25	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	   	P(b)	

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.
- GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)
- P(b): 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 (P102-)P260-P262- P301 + P310-P331 shall apply
- U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged
- U(c): The allocation to the group 'liquefied gas' is based on the physical state in which the gas is packaged

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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

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
DE	butane	106-97-8	AGW	1,000	2,400	4,000	9,600				TRGS 900
DE	propane	74-98-6	AGW	1,000	1,800	4,000	7,200				TRGS 900

Notation

Ceiling-C
STEL

ceiling value is a limit value above which exposure should not occur

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)

TWA

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)

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/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Naphtha (petroleum), hydrotreated light	64742-49-0	DNEL	13,964 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	PNEC	9.33 mg/kg	aquatic organisms	water	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

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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.

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

9.1 Information on basic physical and chemical properties

Physical state	aerosol (spray aerosol)
Colour	black
Odour	characteristic
Melting point/freezing point	-159.4 °C
Boiling point or initial boiling point and boiling range	-161.5 °C at 1,013 hPa
Flammability	flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	1 vol% - 15 vol%
Flash point	-87 °C at 1,013 hPa
Auto-ignition temperature	264 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not relevant
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value) this information is not available

Vapour pressure 4,200 hPa at 20 °C

Density and/or relative density

Density 0.6508 g/ml (calculated value)

Relative vapour density information on this property is not available

9.2 Other information

Information with regard to physical hazard classes there is no additional information

Other safety characteristics

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

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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.

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.

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

Acc. to 1272/2008/EC: Harmful 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
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	LL50	>10,000 mg/l	aquatic invertebrates	24 h

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12.2 Persistence and degradability

Degradability of components

Name of sub-stance	CAS No	Process	Degradation rate	Time	Method	Source
Naphtha (petroleum), hydro-treated light	64742-49-0	oxygen depletion	83 %	10 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

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)	
Naphtha (petroleum), hydrotreated light	64742-49-0	501.2	3.6 (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/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.

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)

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	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
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)

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)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
Distillates (petroleum), solvent-dewaxed heavy paraffinic		a)	

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

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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 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)

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.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Unique formula identifier (UFI): FAA0-W0N7-K005-6WP7		yes
1.1		Unique formula identifier (UFI): FAA0-W0N7-K005-6WP7	yes
1.2	Uses advised against: do not use for products which come into contact with foodstuffs		yes
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 Website: www.nordwest.com	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	yes
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

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
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
2.3		Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.	yes
3.1		Substances: Not relevant (mixture)	yes
3.2		Hazardous ingredients acc. to EU regulation: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
4.1	Following skin contact: Wash with plenty of soap and water. Take off contaminated clothing.	Following skin contact: Wash with plenty of soap and water.	yes
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.	Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.	yes
6.3	Advice on how to clean up a spill: Collect spillage (universal binder).		yes
7.2	Incompatible substances or mixtures: Observe hints for combined storage.		yes
7.2	Consideration of other advice: Observe instructions for use. Keep out of reach of children.		yes
7.2	• Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.	Packaging compatibilities: Keep only in original container.	yes
7.2		Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)	yes
8.1	National limit values		yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.1	Occupational exposure limit values (Workplace Exposure Limits)		yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1	Biological limit values		yes
8.1		Biological limit values: change in the listing (table)	yes
8.1	Relevant DNELs/DMELs/PNECs and other threshold levels		yes
8.1	• relevant DNELs of components of the mixture		yes
8.1	• relevant PNECs of components of the mixture		yes
8.1		Relevant DNELs of components: change in the listing (table)	yes
8.1		Relevant PNECs of components: change in the listing (table)	yes
8.2	Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must 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 drink 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.	yes
8.2	Environmental exposure controls: Use appropriate container to avoid environmental contamination.	Environmental exposure controls: Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.	yes
9.1	Appearance		yes
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: 1 vol% - 15 vol%	yes
9.1	• lower explosion limit (LEL): 1 vol%		yes
9.1	• upper explosion limit (UEL): 15 vol%		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

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
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 hazardous 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
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: Harmful 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: Harmful 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

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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
12.1		Aquatic toxicity (chronic) of components: change in the listing (table)	yes
12.2		Degradability of components: change in the listing (table)	yes
12.3		Bioaccumulative potential 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 contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.	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 $\geq 0,1\%$.	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 liquids and mother liquors	yes
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

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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: none (non-environmentally hazardous acc. to the dangerous goods regulations)	Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations	yes
14.7	UN number: 1950		yes
14.7	Proper shipping name: AEROSOLS		yes
14.7	Class: 2		yes
14.7	UN number: 1950		yes
14.7	Proper shipping name: AEROSOLS		yes
14.7	Class: 2.1		yes
14.7		Marine pollutant: -	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		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

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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: 500 ml		yes
15.1		Regulation on persistent organic pollutants (POP): none of the ingredients are listed	yes
15.1	• Storage of hazardous substances in non-stationary 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
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.
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).
AGW.	Workplace exposure limit.
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).
Ceiling-C.	Ceiling value.
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).
DNEL.	Derived No-Effect Level.
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.
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.
Index No.	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
LGK.	Lagerklasse (storage class according to TRGS 510, Germany).
LL50.	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality.
Log KOW.	n-Octanol/water.
NLP.	No-Longer Polymer.
PBT.	Persistent, Bioaccumulative and Toxic.
PNEC.	Predicted No-Effect Concentration.

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Abbr.	Descriptions of used abbreviations.
Ppm.	Parts per million.
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.
STEL.	Short-term exposure limit.
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).
TRGS 900.	Arbeitsplatzgrenzwerte (TRGS 900).
TWA.	Time-weighted average.
VPvB.	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).

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)

H220.	Extremely flammable gas.
H221.	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.