

Safety Data Sheet

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



Version number: GHS 5.0
Replaces version of: 2021-03-30 (GHS 4)

Revision: 2021-11-30

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

1.1 Product identifier

Trade name **PROMAT CHEMICALS MARKING SPRAY - 500 ml**
Unique formula identifier (UFI) K360-30TS-J00X-T642
Article number
4000 354080 (rot/rouge/rood/czerwony)
4000 354081 (blau/bleu/blauw/niebieski)
4000 354082 (grün/vert/groen/zielony)
4000 354083 (weiß/blanc/wit/biały)
4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty)
4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy)
4000 354086 (leuchtrouge/rouge lumineux/lichtrood/jaskrawo czerwony)
4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy)

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

Relevant identified uses general use
marking paint
Uses advised against do not use for products which come into contact with foodstuffs

1.3 Details of the supplier of the safety data sheet

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

e-Mail (competent person): sdb@nordwest.com

1.4 Emergency telephone number

Austria: Vergiftungsinformationszentrale der Gesundheit +43 1 406 43 43
Germany: Beratungsstelle bei Vergiftungen Giftinformation- +49(0)6131 / 19240
szentrale der Länder Rheinland-Pfalz und Hessen
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	Cat. 1	(Aerosol 1)	H222,H229
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	Cat. 3	(STOT SE 3)	H336

Remarks

For full text of H-phrases: see SECTION 16.
Supplemental hazard information
EUH066 Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

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

Signal word **danger**

Pictograms

GHS02, GHS07



H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Additional labelling requirements

EUH066

Repeated exposure may cause skin dryness or cracking.

Hazardous ingredients for labelling:

Ethyl acetate. 1-Methoxy-2-propylacetate. Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics.

2.3 Other hazards

There is no additional information.














Results of PBT and vPvB assessment

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture

Hazardous ingredients acc. to EU regulation				
Name of substance	Identifier	Wt%	Classification acc. to 1272/2008/EC	Pictograms
butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691-32	25 – < 50	Flam. Gas 1A / H220 Press. Gas C / H280	 
ethyl acetate	CAS No 141-78-6 EC No 205-500-4 REACH Reg. No 01-2119475103-46-xxxx	10 – < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 
Propan	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21	10 – < 25	Flam. Gas 1A / H220 Press. Gas L / H280	 
1-Methoxy-2-propylacetate	CAS No 108-65-6 EC No 203-603-9 REACH Reg. No 01-2119475791-29-xxxx	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336	 
Reference substance 001	CAS No 64742-48-9 EC No 920-134-1 REACH Reg. No 01-2119463258-33-xxxx	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304	  
isobutane	CAS No 75-28-5 EC No 200-857-2 REACH Reg. No 01-2119485395-27	< 1	Flam. Gas 1A / H220 Press. Gas C / H280	 

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Hazardous ingredients acc. to EU regulation				
Name of substance	Identifier	Wt%	Classification acc. to 1272/2008/EC	Pictograms
2-methoxypropyl acetate	CAS No 70657-70-4 EC No 274-724-2	< 1	Flam. Liq. 3 / H226 Repr. 1B / H360D STOT SE 3 / H335	  

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. Provide fresh air.

Following skin contact

Wash with plenty of soap and water. Take off contaminated clothing.

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. In all cases of doubt, or when symptoms persist, seek medical advice.

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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Collect spillage (universal binder).

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.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Observe instructions for use. Keep out of reach of children.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

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Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Source
DE	butane	106-97-8		AGW	1,000	2,400	4,000	9,600			TRGS 900
DE	1-methoxy-2-propyl acetate	108-65-6		MAK	50	270	50	270			DFG
DE	2-methoxy-1-methylethyl acetate	108-65-6	Y	AGW	50	270	50	270			TRGS 900
DE	ethyl acetate	141-78-6		MAK	200	750	400	1,500			DFG
DE	ethyl acetate	141-78-6	Y	AGW	200	730	400	1,460			TRGS 900
DE	Naphtha (petroleum), hydro-treated heavy	64742-48-9		MAK	50	300	100	600			DFG
DE	2-methoxypropyl acetate	70657-70-4	H, Z	AGW	5	28	10	56			TRGS 900
DE	propane	74-98-6		AGW	1,000	1,800	4,000	7,200			TRGS 900
DE	isobutane	75-28-5		AGW	1,000	2,400	4,000	9,600			TRGS 900
EU	2-methoxy-1-methylethyl acetate	108-65-6		IOELV	50	275	100	550			2000/39/EC
EU	ethyl acetate	141-78-6		IOELV	200	734	400	1,468			2017/164/EU

Notation

Ceiling-C

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

H

absorbed through the skin

STEL

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)

Y

a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Z

a risk of developmental toxicity can not be ruled out even if AGW and BGW are complied with

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethyl acetate	141-78-6	DNEL	1,468 mg/m³	human, inhalatory	worker (industry)	acute - local effects
ethyl acetate	141-78-6	DNEL	1,468 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
ethyl acetate	141-78-6	DNEL	63 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
1-Methoxy-2-propyl-acetate	108-65-6	DNEL	275 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
1-Methoxy-2-propyl-acetate	108-65-6	DNEL	550 mg/m³	human, inhalatory	worker (industry)	acute - local effects

(En) Germany:

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Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
1-Methoxy-2-propyl-acetate	108-65-6	DNEL	796 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics	64742-48-9	DNEL	208 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics	64742-48-9	DNEL	871 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

• relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
ethyl acetate	141-78-6	PNEC	0.24 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.024 mg/l	aquatic organisms	marine water	short-term (single instance)
ethyl acetate	141-78-6	PNEC	650 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethyl acetate	141-78-6	PNEC	1.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.115 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.148 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl acetate	141-78-6	PNEC	1.65 mg/l	aquatic organisms	water	intermittent release
1-Methoxy-2-propyl-acetate	108-65-6	PNEC	6.35 mg/l	aquatic organisms	water	intermittent release
1-Methoxy-2-propyl-acetate	108-65-6	PNEC	0.635 mg/l	aquatic organisms	freshwater	short-term (single instance)
1-Methoxy-2-propyl-acetate	108-65-6	PNEC	0.064 mg/l	aquatic organisms	marine water	short-term (single instance)
1-Methoxy-2-propyl-acetate	108-65-6	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1-Methoxy-2-propyl-acetate	108-65-6	PNEC	3.29 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1-Methoxy-2-propyl-acetate	108-65-6	PNEC	0.329 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1-Methoxy-2-propyl-acetate	108-65-6	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2

Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)



Eye/face protection

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state aerosol (spray aerosol)

Colour different

Odour like esters

Other physical and chemical parameters

Melting point/freezing point not applicable (aerosol)

Initial boiling point and boiling range not applicable (aerosol)

Flash point not applicable (aerosol)

Flammability (solid, gas) flammable aerosol in accordance with GHS criteria

Explosive limits

• lower explosion limit (LEL) 0.6 vol%

• upper explosion limit (UEL) 15 vol%

Vapour pressure 4,200 hPa at 20 °C

Density 0.7625 – 0.764 g/ml (calculated value)

Solubility(ies) not determined

Partition coefficient

n-octanol/water (log KOW) This information is not available.

Auto-ignition temperature >200 °C (auto-ignition temperature (liquids and gases))

Viscosity not relevant (aerosol)

Explosive properties none

Oxidising properties none

9.2 Other information There is no additional information.

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.

Physical stresses which might result in a hazardous situation and have to be avoided

high temperatures

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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.

• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
ethyl acetate	141-78-6	dermal	LD50	>20,000 mg/kg	rabbit
1-Methoxy-2-propylacetate	108-65-6	oral	LD50	6,190 – 10,000 mg/kg	rat
1-Methoxy-2-propylacetate	108-65-6	dermal	LD50	>2,000 mg/kg	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

• Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

• Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

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SECTION 12: Ecological information

12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.
Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 1 (slightly hazardous to water)

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethyl acetate	141-78-6	LC50	230 mg/l	fish	96 h
ethyl acetate	141-78-6	EC50	220 mg/l	fish	96 h
1-Methoxy-2-propylacetate	108-65-6	LC50	180 mg/l	fish	96 h
1-Methoxy-2-propylacetate	108-65-6	EC50	>500 mg/l	aquatic invertebrates	48 h
1-Methoxy-2-propylacetate	108-65-6	ErC50	>1,000 mg/l	algae	96 h

Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethyl acetate	141-78-6	EC50	2,306 mg/l	aquatic invertebrates	24 h
1-Methoxy-2-propylacetate	108-65-6	LC50	63.5 mg/l	fish	14 d
1-Methoxy-2-propylacetate	108-65-6	EC50	>100 mg/l	aquatic invertebrates	21 d

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
ethyl acetate	141-78-6	oxygen depletion	62 %	5 d
1-Methoxy-2-propylacetate	108-65-6	carbon dioxide generation	90 %	28 d
1-Methoxy-2-propylacetate	108-65-6	oxygen depletion	60 %	5.9 d
1-Methoxy-2-propylacetate	108-65-6	DOC removal	99 %	28 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
butane	106-97-8		1.09 (pH value: 7, 20 °C)	
ethyl acetate	141-78-6	30	0.68 (pH value: 7, 25 °C)	
propane	74-98-6		1.09 (pH value: 7, 20 °C)	
1-Methoxy-2-propylacetate	108-65-6		1.2 (pH value: 6.8, 20 °C)	
isobutane	75-28-5		1.09 (pH value: 7, 20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

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12.6 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

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

16 05 04* gases in pressure containers (including halons) containing hazardous substances
15 01 10* packaging containing residues of or contaminated by hazardous substances

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 | 1950 |
| 14.2 | UN proper shipping name | AEROSOLS |
| 14.3 | Transport hazard class(es) | |
| | Class | 2 (gases) (aerosol) |
| | Subsidiary risk(s) | 2.1 (flammability) |
| 14.4 | Packing group | not assigned to a packing group |
| 14.5 | Environmental hazards | none (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 | Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| | 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)

UN number	1950
Proper shipping name	AEROSOLS
Class	2
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

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• International Maritime Dangerous Goods Code (IMDG)

UN number 1950
Proper shipping name AEROSOLS
Class 2.1
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)

UN number 1950
Proper shipping name Aerosols, flammable
Class 2.1
Danger label(s) 2.1



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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

• Restrictions according to REACH, Annex XVII

Name acc. to inventory	CAS No	Restriction	No
flammable / pyrophoric		R40	40
flammable / pyrophoric		R40	40
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
substances in tattoo inks and permanent make-up		R75	75
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
toxic for reproduction		R28-30	30
flammable / pyrophoric		R40	40
substances in tattoo inks and permanent make-up		R75	75
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40

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Legend

- R28-30** 1. Shall not be placed on the market, or used,
- as substances,
- as constituents of other substances, or,
- in mixtures,
for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:
- either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,
- the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:
'Restricted to professional users'.
2. By way of derogation, paragraph 1 shall not apply to:
(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;
(b) cosmetic products as defined by Directive 76/768/EEC;
(c) the following fuels and oil products:
- motor fuels which are covered by Directive 98/70/EC,
- mineral oil products intended for use as fuel in mobile or fixed combustion plants,
- fuels sold in closed systems (e.g. liquid gas bottles);
(d) artists' paints covered by Directive 1999/45/EC;
(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date;
(f) devices covered by Regulation (EU) 2017/745.
- R3** 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
— can be used as fuel in decorative oil lamps for supply to the general public, and
— present an aspiration hazard and are labelled with H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter fluid may lead to life threatening lung damage";
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;
- R40** 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- 'whoopie' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.
2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
'For professional users only'.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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Legend R75

1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
 - (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
 - (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
 - (ii) 0,01 % by weight, in all other cases;
 - (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
 - (i) "Rinse-off products";
 - (ii) "Not to be used in products applied on mucous membranes";
 - (iii) "Not to be used in eye products";
 - (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
 - (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
 - (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
 - (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
 - (a) the statement "Mixture for use in tattoos or permanent make-up";
 - (b) a reference number to uniquely identify the batch;
 - (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
 - (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
 - (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
 - (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
 - (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No

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Legend

1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.

Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

- List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

- Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol

extremely flammable

Labelling

keep out of reach of children pressurized container: may burst if heated keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking do not pierce or burn, even after use protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Net contents by volume

500 ml

- Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content

82.52 % 630.5 g/l

Maximum VOC content limit			
Product category	Product subcategory	Coating	VOC g/l
vehicle refinishing products	special finishes	all types	840

- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

- Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

- Water Framework Directive (WFD)

Name of substance	CAS No	Listed in	Remarks
2-methoxypropyl acetate		A)	

Legend

A) Indicative list of the main pollutants

- Explosives precursors which are subject to restrictions

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)

1 (slightly hazardous to water)

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• Technical instructions on air quality control (Germany)

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

Notation

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

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

Storage class (LGK): 2 B (aerosol dispensers and lighters)

National inventories

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

Legend

REACH Reg. REACH registered substances

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Unique formula identifier (UFI): K360-30TS-J00X-T642		yes
1.1		Unique formula identifier (UFI): K360-30TS-J00X-T642	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 e-mail: sdb@nordwest.com 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 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		Emergency telephone number: 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

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Supplemental hazard information	yes
2.1		Supplemental hazard information: 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		Precautionary statements: 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		Additional labelling requirements	yes
2.3	Other hazards: of no significance	Other hazards: There is no additional information.	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
3.1	Substances: Not relevant (mixture)		yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Hazardous ingredients acc. to EU regulation: change in the listing (table)	yes
4.1	Following skin contact: Wash with plenty of soap and water.	Following skin contact: Wash with plenty of soap and water. Take off contaminated clothing.	yes
4.1	Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.	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.	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

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7.2	Packaging compatibilities: Keep only in original container.	• Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.	yes
7.2	Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters)		yes
8.1		National limit values	yes
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		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
8.2	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.	Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink	yes
8.2	Environmental exposure controls: Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.	Environmental exposure controls: Use appropriate container to avoid environmental contamination.	yes
9.1		Appearance	yes
9.1		Odour: like esters	yes
9.1		Other physical and chemical parameters	yes
9.1	Melting point/freezing point: not determined	Melting point/freezing point: not applicable (aerosol)	yes
9.1	Decomposition temperature: not relevant		yes
9.1	pH (value): not applicable (aerosol)		yes
9.1	Kinematic viscosity: not relevant		yes
9.1	Lower and upper explosion limit: 0.6 vol% - 15 vol%	Explosive limits	yes
9.1		• lower explosion limit (LEL): 0.6 vol%	yes
9.1		• upper explosion limit (UEL): 15 vol%	yes
9.1	Density and/or relative density		yes

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9.1	Density: 0.7625 – 0.764 g/ml (calculated value)no data available	Density: 0.7625 – 0.764 g/ml (calculated value)	yes
9.1		Partition coefficient	yes
9.1		n-octanol/water (log KOW): This information is not available.	yes
9.1		Auto-ignition temperature: >200 °C (auto-ignition temperature (liquids and gases))	yes
9.1		Viscosity: not relevant (aerosol)	yes
9.1		Explosive properties: none	yes
9.1		Oxidising properties: none	yes
9.2	Other information	Other information: There is no additional 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
9.2	Odour: like esters		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	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
11.1		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
11.2	Information on other hazards: There is no additional information.		yes

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12.1	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)	Toxicity: acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 1 (slightly hazardous to water)	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)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.2	Persistence and degradability: Data are not available.	Persistence and degradability	yes
12.2		Degradability of components of the mixture	yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes
12.3		Bioaccumulative potential of components of the mixture	yes
12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
13.1	List of wastes, (Recommendations)	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	yes
13.1	Product: 08 01 11* Waste paint and varnish containing organic solvents or other hazardous substances		yes
13.1	Product residues: 16 05 04* Gases in pressure containers (including halons) containing hazardous substances		yes
13.1	Packagings: 15 01 04 Metallic packaging		yes
14.1	UN number or ID number	UN number: 1950	yes
14.1	ADR/RID/ADN: UN 1950		yes

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14.1	IMDG-Code: UN 1950		yes
14.1	ICAO-TI: UN 1950		yes
14.2	ADR/RID/ADN: AEROSOLS		yes
14.2	IMDG-Code: AEROSOLS		yes
14.2	ICAO-TI: Aerosols, flammable		yes
14.3	ADR/RID/ADN: 2 (2.1)		yes
14.3	IMDG-Code: 2.1		yes
14.3	ICAO-TI: 2.1		yes
14.2	UN proper shipping name	UN proper shipping name: AEROSOLS	yes
14.3		Class: 2 (gases) (aerosol)	yes
14.3		Subsidiary risk(s): 2.1 (flammability)	yes
14.4	Packing group: not assigned	Packing group: not assigned to a packing group	yes
14.5	Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations	Environmental hazards: none (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	Marine pollutant: -		yes
14.7		UN number: 1950	yes
14.7		Proper shipping name: AEROSOLS	yes
14.7		Class: 2.1	yes
14.7		UN number: 1950	yes
14.7		Proper shipping name: Aerosols, flammable	yes

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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
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	VOC content: 630.5 g/l		yes
15.1		Maximum VOC content limit: change in the listing (table)	yes
15.1		VOC content: 82.52 % 630.5 g/l	yes
15.1		Maximum VOC content limit: change in the listing (table)	yes
15.1		• Water Framework Directive (WFD)	yes
15.1		• Water Framework Directive (WFD): change in the listing (table)	yes
15.1	National inventories		yes
15.1		National inventories: change in the listing (table)	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

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16		Abbreviations and acronyms: change in the listing (table)	yes
16	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).	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)	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

Abbreviations and acronyms

2000/39/EC. 2017/164/EU.	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC. Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.
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).
AGW.	Workplace exposure limit.
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.
CMR.	Carcinogenic, Mutagenic or toxic for Reproduction.
COD.	Chemical oxygen demand.
DFG.	Deutsche Forschungsgemeinschaft MAK- und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim.
DGR.	Dangerous Goods Regulations (see IATA/DGR).
DMEL.	Derived Minimal Effect Level.
DNEL.	Derived No-Effect Level.
EC50.	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval.
EC No.	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
EINECS.	European Inventory of Existing Commercial Chemical Substances.
ELINCS.	European List of Notified Chemical Substances.
EmS.	Emergency Schedule.
ErC50.	ErC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control.
Eye Dam.	Seriously damaging to the eye.
Eye Irrit.	Irritant to the eye.
Flam. Gas.	Flammable gas.
Flam. Liq.	Flammable liquid.
GHS.	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA.	International Air Transport Association.
IATA/DGR.	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO.	International Civil Aviation Organization.
IMDG.	International Maritime Dangerous Goods Code.
IOELV.	Indicative occupational exposure limit value.
LC50.	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval.
LD50.	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval.
LKG.	Lagerklasse (storage class according to TRGS 510, Germany).
Log KOW.	n-Octanol/water.
MARPOL.	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant").
NLP.	No-Longer Polymer.
PBT.	Persistent, Bioaccumulative and Toxic.
PNEC.	Predicted No-Effect Concentration.
Ppm.	Parts per million.
Press. Gas.	Gas under pressure.
REACH.	Registration, Evaluation, Authorisation and Restriction of Chemicals.
Repr.	Reproductive toxicity.
RID.	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
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.
VOC.	Volatile Organic Compounds.
VPvB.	Very Persistent and very Bioaccumulative.

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)

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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)

H220.	Extremely flammable gas.
H222.	Extremely flammable aerosol.
H225.	Highly flammable liquid and vapour.
H226.	Flammable liquid and vapour.
H229.	Pressurised container: May burst if heated.
H280.	Contains gas under pressure; may explode if heated.
H304.	May be fatal if swallowed and enters airways.
H319.	Causes serious eye irritation.
H335.	May cause respiratory irritation.
H336.	May cause drowsiness or dizziness.
H360D.	May damage the unborn child.

Disclaimer

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