



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

Tectyl™ MULTIPURPOSE AMBER

Version number: GHS 4.0

Revision: 2025-03-30

Replaces version of: 2024-09-04 (GHS 3)

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

1.1 Product identifier

Trade name	Tectyl™ MULTIPURPOSE AMBER
Registration number (REACH)	not relevant (mixture)
Unique formula identifier (UFI)	HS2C-6CDR-Y009-C41Y 8C97-7294-8009-8EJU

Article number	TE25023
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1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Corrosion inhibitor
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1.3 Emergency telephone number

Emergency information service	+32 3575 5555 24 hours emergency information -
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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
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

For full text of abbreviations: see SECTION 16.

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. H336
May cause drowsiness or dizziness.

- 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.



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- P271 Use only outdoors or in a well-ventilated area.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to an authorized waste treatment facility.
- Supplemental hazard information
EUH066 Repeated exposure may cause skin dryness or cracking.

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Extremely flammable. 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.

- Hazardous ingredients for labelling Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics,
<2% aromatics

2.3 Other hazards

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at 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












Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691- 32xxxx	25 – < 50	Flam. Gas 1A / H220 Press. Gas L / H280	 
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS No 64742-48-9 EC No 919-857-5 Index No 649-327-00-6 REACH Reg. No 01-2119463258- 33xxxx	10 – < 25	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304	  
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms

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Propane	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944- 21xxxx	10 – < 25	Flam. Gas 1A / H220 Press. Gas L / H280	 
Sulfonic acids, petroleum, sodium salts	CAS No 68608-26-4 EC No 271-781-5 REACH Reg. No 01-2119527859- 22xxxx	1 – < 5	Eye Irrit. 2 / H319	
Calcium dihydroxide	CAS No 1305-62-0 EC No 215-137-3	1 – < 5	STOT SE 3 / H335	
(2-methoxymethylethoxy)propanol	CAS No 34590-94-8 EC No 252-104-2 REACH Reg. No 01-2119450011- 60xxxx	1 – < 5		
N-methyl-N-oleoylglycine	CAS No 110-25-8 EC No 203-749-3	< 1	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	  
2-(2-heptadec-8-enyl- 2imidazolin-1-yl)ethanol	CAS No 95-38-5 EC No 202-414-9	< 1	Acute Tox. 4 / H302 Skin Corr. 1C / H314 Eye Dam. 1 / H318 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	   
Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
2-(2-heptadec-8-enyl- 2imidazolin-1-yl)ethanol	-	M-factor (acute) = 10	-	
N-methyl-N-oleoylglycine	-	-	11 mg _l /4h 1.02 mg _l /4h	inhalation: vapour inhalation: dust/mist

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures



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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. If skin irritation or rash occurs: Get medical advice/attention.

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. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. If symptoms persist: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

Keep containers cool with water spray. 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.

Special protective equipment for firefighters

Wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Provision of sufficient ventilation. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Eliminate all ignition sources if safe to do so.

For emergency responders

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

6.2 Environmental precautions



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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

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. Handle and open container with care. Prevent from heating up above 50 °C/122 °F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

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

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place.

- Flammability hazards

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

Control of effects

Do not pierce or burn, even after use.

- 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

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]
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EU	calcium dihydroxide	IOELV		1		4		
EU	(2-methoxymethylethoxy)propanol	IOELV	50	308				

Notation

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

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)**Relevant DNELs of components**

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Sulfonic acids, petroleum, sodium salts	68608-26-4	DNEL	0.66 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Sulfonic acids, petroleum, sodium salts	68608-26-4	DNEL	3.33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Calcium dihydroxide	1305-62-0	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Calcium dihydroxide	1305-62-0	DNEL	4 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
(2-methoxymethylethoxy)propanol	34590-94-8	DNEL	308 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(2-methoxymethylethoxy)propanol	34590-94-8	DNEL	283 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	DNEL	0.46 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	DNEL	14 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	DNEL	0.06 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)



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Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	723,500,000 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	723,500,000 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Sulfonic acids, petroleum, sodium salts	68608-26-4	PNEC	868,700,000 mg/kg	terrestrial organisms	soil	short-term (single instance)
Calcium dihydroxide	1305-62-0	PNEC	0.49 mg/l	aquatic organisms	freshwater	short-term (single instance)
Calcium dihydroxide	1305-62-0	PNEC	0.32 mg/l	aquatic organisms	marine water	short-term (single instance)
Calcium dihydroxide	1305-62-0	PNEC	3 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Calcium dihydroxide	1305-62-0	PNEC	1,080 mg/kg	terrestrial organisms	soil	short-term (single instance)
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	19 mg/l	aquatic organisms	freshwater	short-term (single instance)
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	1.9 mg/l	aquatic organisms	marine water	short-term (single instance)
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	4,168 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	70.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	7.02 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	2.74 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)



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2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	PNEC	0.26 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	PNEC	0.376 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	PNEC	0.038 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	PNEC	0.075 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

Wear eye/face protection.

Skin protection

- Hand protection

Wear protective gloves.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness 0.38 mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment. 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	liquid, solid, gaseous (spray aerosol)
Colour	amber
Odour	like solvents
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined



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Flammability	flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	1.1 vol% - 15 vol%
Flash point	<0 °C
Auto-ignition temperature	>200 °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
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Vapour pressure	not determined
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Density and/or relative density

Density	0.7 g/cm ³
Relative vapour density	information on this property is not available

9.2

Particle characteristics	not relevant (aerosol)
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Other information

Information with regard to physical hazard

Classes

Aerosols

- Components (flammable)	<95 %
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Other safety characteristics

Propellant content	<65 %
Temperature class (EU, acc. to ATEX)	T3 (maximum permissible surface temperature on the equipment: 200°C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability



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See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

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

Acids, Bases, 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.



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Acute toxicity estimate (ATE) of components					
Name of substance	CAS No	Exposure route	ATE		
N-methyl-N-oleoylglycine	110-25-8	inhalation: vapour	11 mg/l/4h		
N-methyl-N-oleoylglycine	110-25-8	inhalation: dust/mist	1.02 mg/l/4h		
Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	oral	LD50	>5,000 mg/kg	rat
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	inhalation: vapour	LC50	>9,300 mg/m³ /4h	rat
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	dermal	LD50	>2,000 mg/kg	rat
Sulfonic acids, petroleum, sodium salts	68608-26-4	inhalation: dust/mist	LC50	>1.9 mg/l/4h	rat
Sulfonic acids, petroleum, sodium salts	68608-26-4	dermal	LD50	>5,000 mg/kg	rabbit
Calcium dihydroxide	1305-62-0	oral	LD50	>2,000 mg/kg	rat
Calcium dihydroxide	1305-62-0	inhalation: dust/mist	LC50	>6.04 mg/l/4h	rat
Calcium dihydroxide	1305-62-0	dermal	LD50	>2,500 mg/kg	rabbit
(2-methoxymethylethoxy)propanol	34590-94-8	oral	LD50	>5,000 mg/kg	rat
(2-methoxymethylethoxy)propanol	34590-94-8	dermal	LD50	9,510 mg/kg	rabbit
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	oral	LD50	1,000 mg/kg	rat
N-methyl-N-oleoylglycine	110-25-8	oral	LD50	>5,000 mg/kg	rat
N-methyl-N-oleoylglycine	110-25-8	inhalation: dust/mist	LC50	>1.01 – 1.85 mg/l/1h	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity



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Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Butane	106-97-8	LC50	49.9 mg/l	fish	96 h
Butane	106-97-8	EC50	19.37 mg/l	algae	96 h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	LL50	>1,000 mg/l	fish	24 h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	EL50	>1,000 mg/l	aquatic invertebrates	24 h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	LC50	>0.004 mg/l	aquatic invertebrates	96 h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	EC50	>0.004 mg/l	aquatic invertebrates	48 h
Propane	74-98-6	LC50	49.9 mg/l	fish	96 h
Propane	74-98-6	EC50	19.37 mg/l	algae	96 h
Sulfonic acids, petroleum, sodium salts	68608-26-4	LL50	>10,000 mg/l	fish	96 h
Sulfonic acids, petroleum, sodium salts	68608-26-4	EC50	>1,000 mg/l	aquatic invertebrates	48 h
Sulfonic acids, petroleum, sodium salts	68608-26-4	ErC50	>1,000 mg/l	algae	72 h

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Calcium dihydroxide	1305-62-0	LC50	50.6 mg/l	fish	96 h
Calcium dihydroxide	1305-62-0	EC50	49.1 mg/l	aquatic invertebrates	48 h
Calcium dihydroxide	1305-62-0	ErC50	184.6 mg/l	algae	72 h
(2-methoxymethylethoxy)propanol	34590-94-8	LC50	>1,000 mg/l	fish	96 h
(2-methoxymethylethoxy)propanol	34590-94-8	ErC50	>969 mg/l	algae	72 h
(2-methoxymethylethoxy)propanol	34590-94-8	EC50	>969 mg/l	algae	72 h
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	EC50	0.163 mg/l	daphnia magna	48 h
Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	LL50	>100 mg/l	fish	3 h
Sulfonic acids, petroleum, sodium salts	68608-26-4	EC50	≤5,000 mg/l	microorganisms	8 h
Calcium dihydroxide	1305-62-0	LC50	53.1 mg/l	aquatic invertebrates	14 d
Calcium dihydroxide	1305-62-0	EC50	300.4 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Degradability of components						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	oxygen depletion	10 %	5 d		ECHA
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	carbon dioxide generation	78 %	28 d		ECHA
(2-methoxymethylethoxy)propanol	34590-94-8	oxygen depletion	75 %	10 d		ECHA



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(2-methoxymethylethoxy)propanol	34590-94-8	DOC removal	96 %	28 d		ECHA
(2-methoxymethylethoxy)propanol	34590-94-8	carbon dioxide generation	76 %	28 d		ECHA
2-(2-heptadec-8-enyl-2-imidazolin-1yl)ethanol	95-38-5	carbon dioxide generation	1 %	28 d		ECHA Chem

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)	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	≥30.85 – ≤2,626	≥3.17 – ≤6.23 (pH value: ~7, 20 °C)	
Propane	74-98-6		1.09 (pH value: 7, 20 °C)	
(2-methoxymethylethoxy)pro-	34590-94-8		0.004 (25 °C)	
Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
panol				

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 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.

Waste treatment of containers/packages

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



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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	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

14.2 UN proper shipping name

ADR	AEROSOLS
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

14.3 Transport hazard class(es)

ADR	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

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - 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	-
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Danger label(s)

2.1



Special provisions (SP)

63, 190, 277, 327, 344, 381, 959

Excepted quantities (EQ)

E0

Limited quantities (LQ)

1 L

EmS

F-D, S-U

Stowage category

-

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s)

2.1



Special provisions (SP)

A145, A167

Excepted quantities (EQ)

E0

Limited quantities (LQ)

30 kg

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Relevant provisions of the European Union (EU) Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	flammable / pyrophoric		R40	40
Sulfonic acids, petroleum, sodium salts	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Sulfonic acids, petroleum, sodium salts	substances in tattoo inks and permanent make-up		R75	75
N-methyl-N-oleoylglycine	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
N-methyl-N-oleoylglycine	substances in tattoo inks and permanent make-up		R75	75
Propane	flammable / pyrophoric		R40	40
Butane	flammable / pyrophoric		R40	40

Legend

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,



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- 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
- Legend**
- 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.
- 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 sensitizer 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).



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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 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.

Legend

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 **Deco-Paint Directive**

VOC content	>90 %
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Industrial Emissions Directive (IED)

VOC content	>90 %
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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)

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Name of substance	CAS No	Listed in	Remarks
Calcium dihydroxide		a)	

Legend

a) Indicative list of the main pollutants

Regulation on persistent organic pollutants (POP) none
of the ingredients are listed **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)	Safetyrelevant
1.1	Unique formula identifier (UFI): HS2C-6CDR-Y009-C41Y	Unique formula identifier (UFI): HS2C-6CDR-Y009-C41Y 8C97-7294-8009-8EJU	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
Section	Former entry (text/value)	Actual entry (text/value)	Safetyrelevant
5.2	Special hazards arising from the substance or mixture	Special hazards arising from the substance or mixture: In case of insufficient ventilation and/or in use, may form flammable/explosive vapour- air mixture.	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	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
9.1	Physical state: liquid, gaseous (spray aerosol)	Physical state: liquid, solid, gaseous (spray aerosol)	yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
11.1		Acute toxicity of components: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components: change in the listing (table)	yes



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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: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.	yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1		List of pollutants (WFD): 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		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard



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Abbr.	Descriptions of used abbreviations
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
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
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: 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



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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
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
Abbr.	Descriptions of used abbreviations
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
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
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative



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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.

Code	Text
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.



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H318	Causes serious eye damage.
Code	Text
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). 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)

Disclaimer

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