Safety Data Sheet

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

GENERIC EU SDS - NO COUNTRY SPECIFIC DATA

Undercoating M80 grey

Version number: 1.0 Date of compilation: 16.12.2025

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

1.1 Product identifier

Trade name	**Undercoating M80 grey**
Registration number (REACH)	not relevant (mixture)
Unique formula identifier (UFI)	WX00-501S-F00T-YG3W
Article number	4030

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

Relevant identified uses	Anti-corrosion coating Professional use

1.3 Details of the supplier of the safety data sheet

EMM International B.V.
Bohemenstraat 19
8028 SB Zwolle
Netherlands

Telephone: +31 38 4676600
e-mail: msds@emm.com
Website: www.colad.com

e-mail (competent person)	msds@emm.com

1.4 Emergency telephone number

Emergency information service	+ 31 38 4676600 This number is only available during the following office hours: Mon-Fri 08:00 - 17:00

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 state-ment
2.6	flammable liquid	2	Flam. Liq. 2	H225
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of H-phrases: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of water-courses.

2.2 Label elements

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

- signal word Danger

- pictograms

GHS02, GHS07, GHS09

- hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

- precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- hazardous ingredients for labelling

Contains: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Ethyl acetate; Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics.

2.3 Other hazards

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Ethyl acetate	CAS No 141-78-6 EC No 205-500-4 Index No 607-022-00-5 REACH Reg. No 01-2119475103-46-xxxx	10 – < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066		GHS-HC IOELV
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	CAS No 64742-49-0 EC No 927-510-4	10 – < 25	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		GHS-HC P(b)

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
	REACH Reg. No 01-2119475515-33-xxxx				
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC No 920-750-0 REACH Reg. No 01-2119473851-33-xxxx	5 - < 10	Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 EUH066		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane	EC No 921-024-6 REACH Reg. No 01-2119475514-35-xxxx	5 - < 10	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		
Hydrocarbons, C9, aromatics	CAS No 128601-23-0 EC No 918-668-5 REACH Reg. No 01-2119455851-35-xxxx	3 - < 5	Flam. Liq. 3 / H226 STOT SE 3 / H335 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 EUH066		

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

P(b): The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 shall apply

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: 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. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. Call a POISON CENTER/doctor.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

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

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry extinguishing powder; Carbon dioxide (CO_2); Sand;
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet. Water.

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. Solvent vapours are heavier than air and may spread along floors. 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.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced. Carbon monoxide (CO). Carbon dioxide (CO_2).

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.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).

Appropriate containment techniques

Use of adsorbent materials.

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. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- 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 are heavier than air, spread along floors and form explosive mixtures with air. 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. Use local and general ventilation. Keep cool. Protect from sunlight.

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

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

- ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Generic EU SDS - No country specific limit values mentioned.

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Notation	Source
EU	ethyl acetate	141-78-6	IOELV	200	734	400	1.468		2017/164/EU

Notation

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/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	DNEL	2.085 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	DNEL	300 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	DNEL	447 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	DNEL	149 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	DNEL	149 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Ethyl acetate	141-78-6	DNEL	734 mg/m³	human, inhalatory	worker (industry)	chronic - systemic 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	1.468 mg/m³	human, inhalatory	worker (industry)	acute - local effects
Ethyl acetate	141-78-6	DNEL	63 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Ethyl acetate	141-78-6	DNEL	367 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Ethyl acetate	141-78-6	DNEL	734 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects
Ethyl acetate	141-78-6	DNEL	367 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
Ethyl acetate	141-78-6	DNEL	734 mg/m³	human, inhalatory	consumer (private households)	acute - local effects
Ethyl acetate	141-78-6	DNEL	37 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Ethyl acetate	141-78-6	DNEL	4,5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		DNEL	2.035 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		DNEL	773 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		DNEL	608 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		DNEL	699 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		DNEL	699 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		DNEL	2.035 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		DNEL	773 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		DNEL	608 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		DNEL	699 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		DNEL	699 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9, aromatics	128601-23-0	DNEL	151 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C9, aromatics	128601-23-0	DNEL	12,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C9, aromatics	128601-23-0	DNEL	32 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9, aromatics	128601-23-0	DNEL	7,5 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9, aromatics	128601-23-0	DNEL	7,5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Ethyl acetate	141-78-6	PNEC	1,65 mg/l	aquatic organisms	water	intermittent release
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)

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection (EN ISO 16321).

Skin protection

Chemical protective clothing. Protective clothing (EN ISO 13688).

Hand protection

Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Chemical protection gloves are suitable, which are tested according to EN 374. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

Fluorocarbon rubber (Viton®)

- material thickness

Use gloves with a minimum material thickness: ≥ 0,12 mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time 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: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. 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
Colour	grey
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	77,1 °C at 101,3 kPa calculated value, referring to a component of the mixture
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	LEL: 0,6 vol% / UEL: 11,5 vol% calculated value, referring to a component of the mixture
Flash point	>-7,5 °C at 1 atm calculated value, referring to a component of

	the mixture
Auto-ignition temperature	>200 °C (auto-ignition temperature (liquids and gases)) calculated value, referring to a component of the mixture
Decomposition temperature	no data available
pH (value)	not determined
Kinematic viscosity	>20,5 $^{mm^2}/_{s}$ at 40 °C
Dynamic viscosity	690 mPa s at 20 °C
Solubility	not determined

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

Vapour pressure	9,187 kPa at 291,8 K calculated value, referring to a component of the mixture

Density and/or relative density

Density	1,06 $^{g}/_{cm^3}$ at 20 °C (DIN 51757)
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)

9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

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 acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	oral	LD50	>7.100 – 7.800 $^{mg}/_{kg}$	rat
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	inhalation: vapour	LC50	>23,3 $^{mg}/_{l}$/4h	rat
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	dermal	LD50	>2.800 – 3.100 $^{mg}/_{kg}$	rat
Ethyl acetate	141-78-6	oral	LD50	4.934 $^{mg}/_{kg}$	rabbit
Ethyl acetate	141-78-6	dermal	LD50	>20.000 $^{mg}/_{kg}$	rabbit
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		inhalation: vapour	LC50	>23,3 $^{mg}/_{l}$/4h	rat
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		dermal	LD50	>2.920 $^{mg}/_{kg}$	rat
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		inhalation: vapour	LC50	>25,2 $^{mg}/_{l}$/4h	rat
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		dermal	LD50	>2.800 – 3.100 $^{mg}/_{kg}$	rat
Hydrocarbons, C9, aromatics	128601-23-0	oral	LD50	7.093 $^{mg}/_{kg}$	rat
Hydrocarbons, C9, aromatics	128601-23-0	dermal	LD50	>2.000 $^{mg}/_{kg}$	rabbit

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

Other information

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	LL50	>13,4 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	EL50	≥10 – ≤22 mg/l	daphnia magna	24 h
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	NOELR	6,3 mg/l	algae	72 h
Ethyl acetate	141-78-6	LC50	230 mg/l	fathead minnow (Pimephales promelas)	96 h
Ethyl acetate	141-78-6	EC50	220 mg/l	fathead minnow (Pimephales promelas)	96 h
Ethyl acetate	141-78-6	NOEC	>100 mg/l	green algae (Desmodesmus subspicatus)	72 h
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		LL50	3 – 10 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		EL50	10 – 22 mg/l	daphnia magna	24 h
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		NOELR	3 mg/l	algae	24 h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		LL50	>13,4 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		EL50	≥10 – ≤22 mg/l	daphnia magna	24 h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		NOELR	6,3 mg/l	algae	72 h
Hydrocarbons, C9, aromatics	128601-23-0	LL50	9,2 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
Hydrocarbons, C9, aromatics	128601-23-0	EL50	3,2 mg/l	daphnia magna	48 h
Hydrocarbons, C9, aromatics	128601-23-0	NOEC	0,07 mg/l	algae	72 h
Hydrocarbons, C9, aromatics	128601-23-0	NOELR	1 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	EL50	1,6 mg/l	daphnia magna	21 d
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	EC50	0,23 mg/l	daphnia magna	21 d
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	NOELR	1 mg/l	daphnia magna	21 d
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	NOEC	0,17 mg/l	daphnia magna	21 d
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	LOEC	0,32 mg/l	daphnia magna	21 d
Ethyl acetate	141-78-6	EC50	2.306 mg/l	aquatic invertebrates	24 h
Ethyl acetate	141-78-6	NOEC	2,4 mg/l	daphnia magna	21 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		EL50	1,6 mg/l	daphnia magna	21 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		EC50	0,23 mg/l	daphnia magna	21 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		NOELR	0,574 mg/l	rainbow trout (Onco-rhynchus mykiss)	28 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		NOEC	0,17 mg/l	daphnia magna	21 d
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		LOEC	0,32 mg/l	daphnia magna	21 d
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		EL50	1,6 mg/l	daphnia magna	21 d
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		EC50	0,23 mg/l	daphnia magna	21 d
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		NOELR	1 mg/l	daphnia magna	21 d
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		NOEC	0,17 mg/l	daphnia magna	21 d
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		LOEC	0,32 mg/l	daphnia magna	21 d
Hydrocarbons, C9, aromatics	128601-23-0	EC50	>99 mg/l	microorganisms	10 min
Hydrocarbons, C9, aromatics	128601-23-0	NOELR	1,228 mg/l	fish	28 d
Hydrocarbons, C9, aromatics	128601-23-0	NOEC	>99 mg/l	microorganisms	10 min

12.2 Persistence and degradability

Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	oxygen depletion	10,5 %	15 d	
Ethyl acetate	141-78-6	oxygen depletion	62 %	5 d	

Degradability of components					
Name of substance	**CAS No**	**Process**	**Degradation rate**	**Time**	**Method**
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		oxygen depletion	83 %	16 d	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		oxygen depletion	10,5 %	15 d	
Hydrocarbons, C9, aromatics	128601-23-0	oxygen depletion	30,9 %	2 d	

12.3 Bioaccumulative potential

Bioaccumulative potential of components				
Name of substance	**CAS No**	**BCF**	**Log KOW**	**BOD5/COD**
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0	≥95,35 – ≤315,7	3,07 – 3,78 (20 °C)	
Ethyl acetate	141-78-6	30	0,68 (25 °C)	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane		≥26,26 – ≤315,7	2,96 – 3,78 (20 °C)	
Hydrocarbons, C9, aromatics	128601-23-0	≥30,85 – ≤467	3,03 – 4,73 (20 °C)	

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

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) 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, Decision 2000/532/EC on the list of waste

- product

08 01 11* waste paint and varnish containing organic solvents or other 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 or ID number

ADR/RID/ADN	UN 1139
IMDG-Code	UN 1139
ICAO-TI	UN 1139

14.2 UN proper shipping name

ADR/RID/ADN	COATING SOLUTION includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining (vapour pressure at 50 °C not more than 110 kPa)
IMDG-Code	COATING SOLUTION includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining
ICAO-TI	Coating solution includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining

14.3 Transport hazard class(es)

ADR/RID/ADN	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

ADR/RID/ADN	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards

hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment)	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Additional information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Classification code	F1
Danger label(s)	3, fish and tree

Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	640D
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 L

Transport category (TC)	2
Tunnel restriction code (TRC)	D/E
Hazard identification No	33

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant	yes (hazardous to the aquatic environment)
Danger label(s)	3, fish and tree

Special provisions (SP)	-
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 L
EmS	F-E, S-E
Stowage category	B

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

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	3

Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L

SECTION 15: Regulatory information

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

This Safety Data Sheet is purely informative and does comply with EU regulations, but not with country-specific regulations.

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	Restriction	No
Undercoating M80 grey	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Ethyl acetate	flammable / pyrophoric	R40	40
Ethyl acetate	substances in tattoo inks and permanent make-up	R75	75
Hydrocarbons, C9, aromatics	flammable / pyrophoric	R40	40
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	flammable / pyrophoric	R40	40
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	flammable / pyrophoric	R40	40
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,cyclics, <5% nhexane	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 ash-trays,
- 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,
- ‘whoopee’ 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.

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

Legend

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.
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.

Seveso Directive

2012/18/EU (Seveso III)

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200	500	57)

Notation

57) hazardous to the Aquatic Environment in category Chronic 2

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	50,96 %

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

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

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/164/EU	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)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code

Abbr.	Descriptions of used abbreviations
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
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

UN Recommendations on the Transport of Dangerous Good. 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)

Code	Text
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

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