

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

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

1.1 Product identifier

Product identifier : CLEAR/AL
Product name : CLEAR #1 UV RESISTANT CLEARCOAT AEROSOL
Product type : Aerosol.
Appearance : Aerosol.
Other means of identification : Not available.
Date of issue/ Date of revision : 13 May 2025
Version : 1
Date of previous issue : No previous validation

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

Identified uses : Coating component.
Uses advised against : Not for sale to or use by consumers.

1.3 Details of the supplier of the safety data sheet

U-POL Limited
Denington Road
Wellingborough, Northamptonshire, NN8 2QH
+44 (0) 1933 230310
technicalsupport@u-pol.com
e-mail address of person responsible for this SDS : sds-competence@axalta.com

National contact

U-POL Netherlands
B.V. Hoorgoordreef 15
Amsterdam, Netherlands 1101BA
+31 20 240 2216
technicalsupport@u-pol.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : 010-456 6700 (9:00-17:00);112

Supplier

+(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aerosol 1, H222, H229

Skin Irrit. 2, H315

Eye Dam. 1, H318

Carc. 2, H351

STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Contains : butanone
cyclohexanone
n-butyl acetate
4-methylpentan-2-one

Hazard statements : H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if heated.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer.

Precautionary statements

Prevention : 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.

Response : P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.

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

Disposal : Not applicable.

Supplemental label elements : EUH208 - Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

2.3 Other hazards

SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
dimethyl ether	REACH #: 01-2119472128-37 EC: 204-065-8 CAS: 115-10-6 Index: 603-019-00-8	≥25 - ≤50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[1] [2]
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
cyclohexanone	REACH #: 01-2119453616-35 EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	≥10 - ≤17	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1800 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 8000 ppm	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40 EC: 905-588-0	≤2.3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
Reaction mass of bis (1,2,2,6,6-pentamethyl-	REACH #: 01-2119491304-40	<0.1	Skin Sens. 1A, H317 Repr. 2, H361 (oral)	M [Acute] = 1 M [Chronic] = 1	[1]

SECTION 3: Composition/information on ingredients

4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	EC: 915-687-0 CAS: 1065336-91-5		Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.		
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There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

SECTION 4: First aid measures

4.1 Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-

SECTION 4: First aid measures

4-piperidyl sebacate. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
- Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

- : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

: Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.
Operators should wear antistatic footwear and clothing and floors should be of the conducting type.
Keep away from heat, sparks and flame. No sparking tools should be used.
Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Put on appropriate personal protective equipment (see Section 8).
Never use pressure to empty. Container is not a pressure vessel.
Always keep in containers made from the same material as the original one.
Comply with the health and safety at work laws.
Do not allow to enter drains or watercourses.
Information on fire and explosion protection
Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P3a	150 tonnes	500 tonnes

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Identifiers	Exposure limit values
dimethyl ether	REACH #: 01-2119472128-37 EC: 204-065-8 CAS: 115-10-6 Index: 603-019-00-8	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 500 ppm. TWA 8 hours: 950 mg/m ³ . STEL 15 minutes: 800 ppm. STEL 15 minutes: 1500 mg/m ³ . EU OEL (Europe, 1/2022) TWA 8 hours: 1000 ppm. TWA 8 hours: 1920 mg/m ³ .
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m ³ . EU OEL (Europe, 1/2022) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m ³ .
cyclohexanone	REACH #: 01-2119453616-35 EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 41 mg/m ³ . STEL 15 minutes: 20 ppm. STEL 15 minutes: 81 mg/m ³ . EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 40.8 mg/m ³ . STEL 15 minutes: 20 ppm. STEL 15 minutes: 81.6 mg/m ³ .
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	Work environment authority Regulation 2018:1 (Sweden, 11/2022) [butyl acetate] TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m ³ . EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m ³ . TWA 8 hours: 241 mg/m ³ . TWA 8 hours: 50 ppm.
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS:	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m ³ . STEL 15 minutes: 50 ppm.

SECTION 8: Exposure controls/personal protection

	108-10-1 Index: 606-004-00-4	STEL 15 minutes: 200 mg/m³. EU OEL (Europe, 1/2022) TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m³.
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Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following:
European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
dimethyl ether	DNEL - General population - Long term - Inhalation 471 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 1894 mg/m³ <u>Effects</u> : Systemic
butanone	DNEL - Workers - Long term - Inhalation 200.539 ppm <u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 31 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 106 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 412 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 450 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 600 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 900 mg/m³

SECTION 8: Exposure controls/personal protection

	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Dermal
	1161 mg/kg bw/day
	<u>Effects:</u> Systemic
cyclohexanone	DNEL - Workers - Long term - Inhalation
	9.8 ppm
	<u>Effects:</u> Systemic
	DNEL - General population - Short term - Dermal
	1 mg/kg bw/day
	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Dermal
	1 mg/kg bw/day
	<u>Effects:</u> Systemic
	DNEL - General population - Short term - Oral
	1.5 mg/kg bw/day
	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Oral
	1.5 mg/kg bw/day
	<u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation
	2.55 mg/m³
	<u>Effects:</u> Systemic
	DNEL - Workers - Short term - Dermal
	4 mg/kg bw/day
	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Dermal
	4 mg/kg bw/day
	<u>Effects:</u> Systemic
	DNEL - General population - Short term - Inhalation
	5 mg/m³
	<u>Effects:</u> Systemic
	DNEL - Workers - Long term - Inhalation
	10 mg/m³
	<u>Effects:</u> Local
	DNEL - Workers - Long term - Inhalation
	10 mg/m³
	<u>Effects:</u> Systemic
	DNEL - Workers - Short term - Inhalation
	20 mg/m³
	<u>Effects:</u> Local
	DNEL - Workers - Short term - Inhalation
	20 mg/m³
	<u>Effects:</u> Systemic

SECTION 8: Exposure controls/personal protection

n-butyl acetate

DNEL - Workers - Short term - Dermal

11 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Oral**

2 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Oral**

2 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Dermal**

3.4 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Dermal**

6 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Dermal**

11 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Short term - Dermal**

11 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Inhalation**12 mg/m³Effects: Systemic**DNEL - General population - Long term - Inhalation**35.7 mg/m³Effects: Local**DNEL - Workers - Long term - Inhalation**300 mg/m³Effects: Systemic**DNEL - General population - Short term - Inhalation**300 mg/m³Effects: Local**DNEL - General population - Short term - Inhalation**300 mg/m³Effects: Systemic**DNEL - Workers - Long term - Inhalation**300 mg/m³Effects: Local**DNEL - Workers - Short term - Inhalation**600 mg/m³Effects: Local**DNEL - Workers - Short term - Inhalation**

SECTION 8: Exposure controls/personal protection

	600 mg/m ³ <u>Effects:</u> Systemic
4-methylpentan-2-one	DNEL - Workers - Long term - Dermal 11.8 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 83 mg/m ³ <u>Effects:</u> Local DNEL - Workers - Long term - Inhalation 83 mg/m ³ <u>Effects:</u> Systemic DNEL - Workers - Short term - Inhalation 208 mg/m ³ <u>Effects:</u> Local DNEL - Workers - Short term - Inhalation 208 mg/m ³ <u>Effects:</u> Systemic DNEL - General population - Long term - Oral 4.2 mg/kg bw/day <u>Effects:</u> Systemic
Reaction mass of ethylbenzene and xylene	DNEL - Workers - Long term - Dermal 212 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 221 mg/m ³ <u>Effects:</u> Systemic
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	DNEL - Workers - Long term - Inhalation 3.53 mg/m ³ <u>Effects:</u> Systemic DNEL - Workers - Long term - Dermal 2 mg/kg <u>Effects:</u> Systemic DNEL - General population - Long term - Oral 0.18 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 0.31 mg/m ³ <u>Effects:</u> Systemic DNEL - General population - Long term - Dermal 0.9 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 1.27 mg/m ³

SECTION 8: Exposure controls/personal protection

Effects: Systemic

DNEL - Workers - Long term - Dermal
1.8 mg/kg bw/day
Effects: Systemic

PNECs

Product/ingredient name	Result
butanone	Fresh water 55.8 mg/l
	Sewage Treatment Plant 709 mg/l
	Fresh water sediment 284.7 mg/kg
	Marine water sediment 284.7 mg/kg
	Marine water 55.8 mg/l
cyclohexanone	Sewage Treatment Plant 22.5 mg/kg
	Fresh water 0.0329 mg/l
	Marine water 0.0329 mg/l
n-butyl acetate	Soil 0.09 mg/kg
	Fresh water 0.18 mg/l
	Sewage Treatment Plant 35.6 mg/l
	Marine water 0.018 mg/l
	Fresh water sediment 0.981 mg/kg
4-methylpentan-2-one	Marine water sediment 0.098 mg/kg
	Marine water 0.06 mg/l
	Fresh water 0.6 mg/l
	Sediment

SECTION 8: Exposure controls/personal protection

	8.27 mg/kg
Reaction mass of ethylbenzene and xylene	Fresh water 0.327 mg/l
	Marine water 0.327 mg/l
	Sewage Treatment Plant 6.58 mg/l
	Fresh water sediment 12.46 mg/kg dwt
	Marine water sediment 12.46 mg/kg dwt
	Soil 2.31 mg/kg
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Fresh water 0.0022 mg/l
	Marine water 0.00022 mg/l
	Secondary Poisoning 0.009 mg/l
	Fresh water sediment 1.05 mg/kg
	Marine water sediment 0.11 mg/kg
	Soil 0.21 mg/kg
	Sewage Treatment Plant 1 mg/l

8.2 Exposure controls

Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.
Individual protection measures	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.

SECTION 8: Exposure controls/personal protection

Skin protection

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves : Duration / breakthrough time: <1 hour,
Glove material: NBR, nitrile rubber, material thickness as splash protection: at least 0.2 mm, (EN374)
Glove material: NBR, nitrile rubber, material thickness for short-term contact: at least 0.5 mm, (EN374)
The recommendation for the type or types of glove to use when handling this product is based on information from the following source:
Expert judgment
The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Environmental exposure controls : Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.
Color : Transparent.
Odor : Characteristic.
Odor threshold : Not available.
Melting point/freezing point : Technically not possible to measure
Boiling point or initial boiling point and boiling range : Not applicable.

SECTION 9: Physical and chemical properties

Flammability	: Not available.
Lower and upper explosion limit	: Lower: 1% Upper: 26.2%
Lower and upper explosive (flammable) limits	: Not available.
Flash point	: Closed cup: -41°C
Auto-ignition temperature	: 350°C
Decomposition temperature	: Not applicable.
pH	: Not applicable.
Justification	: Not available.
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): Not available.
Vapor pressure	207.4 kPa (1555.8 mm Hg)
Density	: 0.798 g/cm ³
Weight volatiles	: 83.5 % (w/w)
VOC content	: 83.4 % (w/w) (2010/75/EU)

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Heat of combustion : 26.29 kJ/g

Aerosol product

Type of aerosol : Spray

Further information Not available.

9.2.2 Other safety characteristics

Miscible with water : Yes.

Further information Not available.

room temperature (=20°C)

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result
dimethyl ether	Rat - Oral - LD50 >99999 mg/kg Rat - Dermal - LD50 >99999 mg/kg Rat - Inhalation - LC50 Vapor 309 g/m ³ [4 hours] Rat - Inhalation - LC50 Gas. 164000 ppm [4 hours] <u>Toxic effects:</u> Behavioral - Ataxia Behavioral - Coma
butanone	Rabbit - Dermal - LD50 6480 mg/kg Rat - Oral - LD50 2737 mg/kg
cyclohexanone	Rat - Oral - LD50 1800 mg/kg Rat - Inhalation - LC50 Gas. 8000 ppm [4 hours]
n-butyl acetate	Rat - Oral - LD50 10768 mg/kg <u>Toxic effects:</u> Behavioral - Somnolence (general depressed

SECTION 11: Toxicological information

activity) Lung, Thorax, or Respiration - Other changes Liver - Other changes

Rabbit - Dermal - LD50

>17600 mg/kg

Rat - Inhalation - LC50 Vapor

21.1 mg/l [4 hours]

4-methylpentan-2-one

Rat - Oral - LD50

2080 mg/kg

Rat - Inhalation - LC50 Vapor

16.4 mg/l [4 hours]

Reaction mass of ethylbenzene and xylene

Rat - Oral - LD50

3523 to 4000 mg/kg

Rabbit - Dermal - LD50

121236 mg/kg

Rat - Inhalation - LC50 Vapor

6350 to 6700 ppm [4 hours]

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl
1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Rat - Male, Female - Oral - LD50

3230 mg/kg

OECD [Acute Oral toxicity - Acute Toxic Class Method]

Rat - Male, Female - Dermal - LD50

>3170 mg/kg

OECD [Acute Dermal Toxicity]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture	17996.4	9686.6	79984.0	176.4	N/A
dimethyl ether	N/A	N/A	164000	309	N/A
butanone	2737	6480	N/A	N/A	N/A
cyclohexanone	1800	1100	8000	N/A	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl	3230	N/A	N/A	N/A	N/A
1,2,2,6,6-pentamethyl-4-piperidyl sebacate					

Skin corrosion/irritation

Product/ingredient name

Result

SECTION 11: Toxicological information

butanone

Rabbit - Skin - Mild irritantDuration of treatment/exposure: 24 hoursAmount/concentration applied: 14 mg**Rabbit - Skin - Mild irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 402 mg**Rabbit - Skin - Moderate irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 500 mg

cyclohexanone

Human - Skin - Mild irritantDuration of treatment/exposure: 48 hoursAmount/concentration applied: 50 %**Rabbit - Skin - Mild irritant**Amount/concentration applied: 500 mg**Rabbit - Skin - Irritant**

OECD [Acute Dermal Irritation/Corrosion]

4-methylpentan-2-one

Rabbit - Skin - Mild irritantDuration of treatment/exposure: 24 hoursAmount/concentration applied: 500 mg**Conclusion/Summary [Product]** : Not available.**Serious eye damage/eye irritation****Product/ingredient name**

cyclohexanone

Result**Rabbit - Eyes - Severe irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 250 ug**Rabbit - Eyes - Severe irritant**Amount/concentration applied: 20 mg

4-methylpentan-2-one

Rabbit - Eyes - Moderate irritantDuration of treatment/exposure: 24 hoursAmount/concentration applied: 100 uL**Rabbit - Eyes - Severe irritant**Amount/concentration applied: 40 mg**Conclusion/Summary [Product]** : Not available.**Respiratory corrosion/irritation**

Not available.

Conclusion/Summary [Product] : Not available.**Respiratory or skin sensitization**

Not available.

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Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
butanone	STOT SE 3, H336 (Narcotic effects)
cyclohexanone	STOT SE 3, H335 (Respiratory tract irritation)
n-butyl acetate	STOT SE 3, H336 (Narcotic effects)
4-methylpentan-2-one	STOT SE 3, H336 (Narcotic effects)
Reaction mass of ethylbenzene and xylene	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	STOT RE 2, H373

Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

SECTION 11: Toxicological information

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

Product/ingredient name

butanone

Result

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Larvae

Age: <24 hours

5091 mg/l [48 hours]

Effect: Intoxication

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 31 days; Size: 22 mm; Weight: 0.167 g

3220 mg/l [96 hours]

Effect: Mortality

Acute - EC50 - Marine water

Algae - Diatom - *Skeletonema costatum*

>500 mg/l [96 hours]

Effect: Population

cyclohexanone

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 30 days; Size: 20.2 mm; Weight: 0.127 g

527 mg/l [96 hours]

Effect: Mortality

Chronic - EC10

Algae - Green algae - *Chlamydomonas reinhardtii* -

Exponential growth phase

Age: 7 days

3.56 mg/l [72 hours]

Effect: Population

Acute - EC50

Algae - Green algae - *Chlamydomonas reinhardtii* -

Exponential growth phase

Age: 7 days

32.9 mg/l [72 hours]

Effect: Population

n-butyl acetate

Acute - LC50 - Marine water

Fish - Inland silverside - *Menidia beryllina*

185 ppm [96 hours]

Effect: Mortality

4-methylpentan-2-one

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 29 days; Size: 21 mm; Weight: 0.141 g

505 mg/l [96 hours]

Effect: Mortality

SECTION 12: Ecological information

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

78 mg/l [21 days]

Effect: Behavior

Chronic - NOEC - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Embryo

Age: <24 hours

168 mg/l [33 days]

Effect: Mortality

Reaction mass of ethylbenzene and xylene

Acute - LC50

OECD 203

Fish - Trout - *Oncorhynchus mykiss*

2.6 mg/l [96 hours]

Acute - LC50

OECD 202

Daphnia - Daphnia - *Daphnia magna*

1 mg/l [24 hours]

Acute - EC50

OECD 201

Algae - Algae - *Selenastrum capricornutum*

2.2 mg/l [73 hours]

Chronic - NOEC

OECD 301F

Micro-organism - Activated sludge - *Activated sludge*

16 mg/l [28 days]

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Acute - LC50

OECD 203, semistatic

Fish - *Brachydanio rerio*

0.9 mg/l [96 hours]

Chronic - NOEC - Fresh water

OECD [Daphnia Magna Reproduction Test]

Daphnia

1 mg/l [21 days]

Acute - EC50 - Fresh water

OECD [Alga, Growth Inhibition Test]

Algae

1.68 mg/l [72 hours]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

SECTION 12: Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
dimethyl ether	0.07	-	Low
butanone	0.3	-	Low
cyclohexanone	0.86	-	Low
n-butyl acetate	2.3	-	Low
4-methylpentan-2-one	1.9	-	Low
Reaction mass of ethylbenzene and xylene	3.16	-	Low

12.4 Mobility in soil

Soil/Water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
dimethyl ether	0.44	2.76229
butanone	1.2	15.8984
cyclohexanone	1.8	63.2873
n-butyl acetate	1.52	33.2139
4-methylpentan-2-one	1.61	40.9047

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
dimethyl ether	No	No	Yes	No	No	No	Yes
butanone	No	No	Yes	No	No	No	Yes
cyclohexanone	No	No	Yes	No	No	No	Yes
n-butyl acetate	No	No	Yes	No	No	No	Yes
4-methylpentan-2-one	No	No	Yes	No	No	No	Yes
Reaction mass of ethylbenzene and xylene	No	No	No	No	No	No	No
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	Yes	No	No	No

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
dimethyl ether	No	No	No	No	No	No	No
butanone	No	No	No	No	No	No	No
cyclohexanone	No	No	No	No	No	No	No
n-butyl acetate	No	No	No	No	No	No	No
4-methylpentan-2-one	No	No	No	No	No	No	No
Reaction mass of ethylbenzene and xylene	No	No	No	No	No	No	No
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-	No	No	No	Yes	No	No	No

SECTION 12: Ecological information

4-piperidyl sebacate

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
dimethyl ether	No	No	No	No	No	No	No
butanone	No	No	No	No	No	No	No
cyclohexanone	No	No	No	No	No	No	No
n-butyl acetate	No	No	No	No	No	No	No
4-methylpentan-2-one	No	No	No	No	No	No	No
Reaction mass of ethylbenzene and xylene	No	No	No	No	No	No	No
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	Yes	No	No	No

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.
Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Disposal considerations : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

SECTION 13: Disposal considerations





Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging	European waste catalogue (EWC)	
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2 	2 	2.1 	2.1 
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

Additional information

ADR/RID : **Tunnel code** (D)

Marine pollutant : Not available.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not applicable.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.
**on the manufacture,
placing on the market
and use of certain
dangerous substances,
mixtures and articles**

Other EU regulations

Explosive precursors : Not applicable.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

National regulations

Industrial use : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

Flammable liquid class : 1
(SRVFS 2005:10)

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

CEPE code : 1

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
M = Mobile

SECTION 16: Other information

N/A = Not available

P = Persistent

PBT = Persistent, Bioaccumulative and Toxic

PMT = Persistent, Mobile and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SGG = Segregation Group

T = Toxic

vB = Very Bioaccumulative

vM = Very Mobile

vP = Very Persistent

vPvB = Very Persistent and Very Bioaccumulative

vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 1, H222, H229 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351 STOT SE 3, H336	On basis of test data Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H220 H222, H229	Extremely flammable gas. Extremely flammable aerosol. Pressurized container: may burst if heated.
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

SECTION 16: Other information

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aerosol 1	AEROSOLS - Category 1
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

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Version : 1

Date of previous issue : No previous validation

Notice to reader

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