

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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

1.1 Product identifier

Product identifier : 8034
Product name : Permasolid® HS Clear Coat
Product type : Liquid.
Other means of identification : 4025331463689
Date of issue/ Date of revision : 21 May 2024
Version : 1.16
Date of previous issue : 5 April 2024

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

Axalta Coating Systems Germany GmbH & Co. KG
Christbusch 25
DE 42285 Wuppertal
+49 (0)202 529-0
e-mail address of person responsible for this SDS : sds-competence@axalta.com

1.4 Emergency telephone number

Supplier

Telephone number : +(44)-870-8200418
Hours of operation :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226
Skin Sens. 1, H317
Repr. 2, H361
Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity : 3.1 percent of the mixture consists of component(s) of unknown acute oral toxicity
3.1 percent of the mixture consists of component(s) of unknown acute dermal toxicity
3.1 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

SECTION 2: Hazards identification

Ingredients of unknown ecotoxicity : Contains 3.1% of components with unknown hazards to the aquatic environment

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 : Warning

Contains : 5-methylhexan-2-one
 A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene); α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)
 2,3-epoxypropyl neodecanoate
 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
 2-hydroxyethyl methacrylate

Hazard statements : H226 - Flammable liquid and vapour.
 H317 - May cause an allergic skin reaction.
 H361 - Suspected of damaging fertility or the unborn child.
 H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P201 - Obtain special instructions before use.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P273 - Avoid release to the environment.
 P261 - Avoid breathing vapour.

Response : P308 + P313 - IF exposed or concerned: Get medical advice or attention.
 P302 + P352 - IF ON SKIN: Wash with plenty of water.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements : EUH066 - Repeated exposure may cause skin dryness or cracking.
 EUH205 - Contains epoxy constituents. 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

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.

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5	≥10 - ≤15	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
5-methylhexan-2-one	REACH #: 01-2119472300-51 EC: 203-737-8 CAS: 110-12-3 Index: 606-026-00-4	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H332 Repr. 2, H361 (inhalation)	[1] [2]
isopentyl acetate	REACH #: 01-2119548408-32 EC: 204-662-3 CAS: 123-92-2 Index: 607-130-00-2	≤10	Flam. Liq. 3, H226 EUH066	[1] [2]
2-butoxyethyl acetate	REACH #: 01-2119475112-47 EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	≤5	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≤4.3	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40 EC: 905-588-0	≤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	[1]
2-methylbutyl acetat	EC: 210-843-8 CAS: 624-41-9 Index: 607-130-00-2	≤3	Flam. Liq. 3, H226 EUH066	[1] [2]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5	≤3	Eye Irrit. 2, H319	[1] [2]
A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	REACH #: 01-0000015075-76 EC: 400-830-7	<1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
2,3-epoxypropyl neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5	<1	Skin Sens. 1A, H317 Muta. 2, H341 Repr. 2, H361 Aquatic Chronic 2, H411	[1]
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.56	Skin Sens. 1A, H317 Repr. 2, H361 (oral) Aquatic Acute 1, H400 (M=1)	[1]

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SECTION 3: Composition/information on ingredients

sebacate			Aquatic Chronic 1, H410 (M=1) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	
2-hydroxyethyl methacrylate	REACH #: 01-2119490169-29 EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≤0.2	See Section 16 for the full text of the H statements declared above.	[1]

There are no additional 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.

Type

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

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. 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

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

SECTION 4: First aid measures

- Skin contact** : Adverse symptoms may include the following:
 irritation
 redness
 dryness
 cracking
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations

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.

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 vapour or mist. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialised 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 material 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.

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SECTION 6: Accidental release measures

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 vapours in air and avoid vapour 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

Vapours are heavier than air and may spread along floors. Vapours 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: oxidising 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 unauthorised 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
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
5-methylhexan-2-one	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 475 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 95 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
isopentyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [pentyl acetates (all isomers)] STEL: 541 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours.
2-butoxyethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 332 mg/m ³ 15 minutes. TWA: 133 mg/m ³ 8 hours.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
2-methylbutyl acetat	EH40/2005 WELs (United Kingdom (UK), 1/2020). [pentyl acetates (all isomers)] STEL: 541 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours.
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 ppm 8 hours. TWA: 67.5 mg/m ³ 8 hours. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m ³ 15 minutes.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Hydrocarbons, C9, aromatics	DNEL	Long term Inhalation	150 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
5-methylhexan-2-one	DNEL	Long term Inhalation	21.5 ppm	Workers	Systemic
	DNEL	Long term Dermal	14.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	5.12 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	5.12 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	14.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	17.8125 mg/m ³	General population	Systemic
	DNEL	Long term	100.25 mg/	Workers	Systemic

SECTION 8: Exposure controls/personal protection

isopentyl acetate	DNEL	Inhalation Short term	m ³ 146.5 mg/m ³	General population	Systemic
	DNEL	Inhalation Short term	m ³ 196.3 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term Oral	1.47 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	1.47 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	2.95 mg/kg bw/day	Workers	Systemic
	DNEL	Inhalation Long term	5.1 mg/m ³	General population	Systemic
2-butoxyethyl acetate	DNEL	Inhalation Long term	20.8 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term	20 ppm	Workers	Systemic
	DNEL	Dermal Long term	102 mg/kg bw/day	Workers	Systemic
	DNEL	Inhalation Long term	133 mg/m ³	Workers	Systemic
	DNEL	Oral Long term	8.6 mg/kg bw/day	General population	Systemic
	DNEL	Oral Short term	36 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Short term	72 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	102 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Short term	120 mg/kg bw/day	Workers	Systemic
	DNEL	Dermal Long term	169 mg/kg bw/day	Workers	Systemic
n-butyl acetate	DNEL	Inhalation Short term	333 mg/m ³	Workers	Local
	DNEL	Dermal Short term	11 mg/kg bw/day	Workers	Systemic
	DNEL	Oral Long term	2 mg/kg bw/day	General population	Systemic
	DNEL	Oral Short term	2 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Short term	6 mg/kg bw/day	General population	Systemic
	DNEL	Dermal Long term	7 mg/kg bw/day	Workers	Systemic
	DNEL	Dermal Short term	11 mg/kg bw/day	Workers	Systemic
	DNEL	Inhalation Long term	12 mg/m ³	General population	Systemic
	DNEL	Inhalation Long term	35.7 mg/m ³	General population	Local
	DNEL	Inhalation Long term	48 mg/m ³	Workers	Systemic
	DNEL	Inhalation Short term	300 mg/m ³	General population	Local
	DNEL	Inhalation Short term	300 mg/m ³	General population	Systemic
	DNEL	Inhalation Long term	300 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	600 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	600 mg/m ³	Workers	Systemic

SECTION 8: Exposure controls/personal protection

Reaction mass of ethylbenzene and xylene	DNEL	Inhalation Long term Dermal	212 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic	
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	67.5 mg/m ³	Workers	Local	
A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	DNEL	Short term Inhalation	101.2 mg/ m ³	Workers	Local	
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic	
2,3-epoxypropyl neodecanoate	DNEL	Long term Inhalation	0.35 mg/m ³	Workers	Systemic	
	DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	2.5 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	4 mg/m ³	General population	Systemic	
	DNEL	Long term Dermal	4.2 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	5.88 mg/m ³	Workers	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	Long term Inhalation	3.53 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	2 mg/kg	Workers	Systemic	
	DNEL	Long term Oral	0.18 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	0.31 mg/m ³	General population	Systemic	
	DNEL	Long term Dermal	0.9 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	1.27 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	1.8 mg/kg bw/day	Workers	Systemic	
	2-hydroxyethyl methacrylate	DNEL	Long term Inhalation	0.908 ppm	Workers	Systemic
		DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
		DNEL	Long term Dermal	0.83 mg/ kg bw/day	General population	Systemic
DNEL		Long term Dermal	1.39 mg/ kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	1.45 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	4.9 mg/m ³	Workers	Systemic	

PNECs

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Compartment Detail	Value	Method Detail
5-methylhexan-2-one	Sewage Treatment Plant	100 mg/l	-
	Soil	0.166 mg/kg	-
	Sediment	0.112 mg/kg	-
	Marine water	0.01 mg/l	-
isopentyl acetate	Fresh water	0.1 mg/l	-
	Fresh water	0.011 mg/l	-
	Marine water	0.001 mg/l	-
	Fresh water sediment	0.335 mg/kg	-
	Marine water sediment	0.034 mg/kg	-
2-butoxyethyl acetate	Sewage Treatment Plant	30 mg/l	-
	Soil	0.06 mg/kg dwt	-
	Fresh water	0.304 mg/l	-
	Marine water	0.0304 mg/l	-
	Fresh water sediment	2.03 mg/kg dwt	-
	Marine water sediment	0.203 mg/kg dwt	-
	Soil	0.415 mg/kg dwt	-
n-butyl acetate	Sewage Treatment Plant	90 mg/l	-
	Soil	0.09 mg/kg	-
	Fresh water	0.18 mg/l	-
	Sewage Treatment Plant	35.6 mg/l	-
Reaction mass of ethylbenzene and xylene	Marine water	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine water sediment	0.098 mg/kg	-
	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
2-(2-butoxyethoxy)ethanol	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	-
	Fresh water	1.1 mg/l	-
	Marine water	0.11 mg/l	-
A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene); α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	Fresh water sediment	4.4 mg/kg	-
	Marine water sediment	0.44 mg/kg	-
	Soil	0.32 mg/kg	-
	Fresh water	0.0023 mg/l	-
	Marine water	0.00023 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	3.06 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	Marine water sediment	0.306 mg/kg	-
	Soil	2 mg/kg	-
	Secondary Poisoning	0.028 mg/l	-
	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	-

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2-hydroxyethyl methacrylate	Sewage Treatment Plant	1 mg/l	-
	Fresh water	0.482 mg/l	-
	Marine water	0.482 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	3.79 mg/kg	-
	Marine water sediment	3.79 mg/kg	-
	Soil	0.476 mg/kg	-

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 vapours 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. Contaminated work clothing should not be allowed out of the workplace. 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.

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 fibres or of high-temperature-resistant synthetic fibres.

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/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

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SECTION 8: Exposure controls/personal protection

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.
Colour : Clear.
Odour : Not available.
Odour threshold : Not available.
Melting point/freezing point : Technically not possible to measure
Initial boiling point and boiling range : 140 to 200°C (284 to 392°F)
Flammability (solid, gas) : Not available.
Upper/lower flammability or explosive limits : Lower: 0.7%
 Upper: 8.2%
 Not available.

Flash point : Closed cup: 38°C (100.4°F)
Auto-ignition temperature : 210°C (410°F)
Decomposition temperature : Not applicable.
pH : Not applicable.
Viscosity : Dynamic (room temperature): 106 mPa·s
 Kinematic (room temperature): 107 mm²/s
 Kinematic (40°C): 48.3 mm²/s

Solubility(ies)

:

Media	Result
cold water	Partially soluble

Solubility in water : Not available.
Miscible with water : No.
Partition coefficient: n-octanol/ water : Not applicable.
Vapour pressure : 0.28 kPa (2.1 mm Hg)
Relative density : Not available.
Density : 0.987 g/cm³
Vapour density : Not available.
Explosive properties : Not available.
Oxidising properties : Not available.
Weight volatiles : 46.4 % (w/w)
VOC content : 42.1 % (w/w) (2010/75/EU)

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Flow time (ISO 2431) : 80 s (room temperature) [Jet diameter: 4 mm]

Further information Not available.

9.2.2 Other safety characteristics

Miscible with water : No.

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SECTION 9: Physical and chemical properties

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: oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Not applicable

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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 vapour 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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene); α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene), 2,3-epoxypropyl neodecanoate, Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, 2-hydroxyethyl methacrylate. May produce an allergic reaction.

Acute toxicity

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Hydrocarbons, C9, aromatics	LD50 Dermal	Rabbit	>3160 mg/kg	-
5-methylhexan-2-one	LD50 Oral	Rat - Female	3492 mg/kg	-
	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapour	Rat	11.11 mg/l	4 hours
isopentyl acetate	LD50 Oral	Rat	3200 mg/kg	-
	LD50 Dermal	Rabbit	>5 g/kg	-
2-butoxyethyl acetate	LD50 Oral	Rat	16600 mg/kg	-
	LC50 Inhalation Vapour	Rat	7.82 mg/l	4 hours
	LD50 Dermal	Rabbit	1500 mg/kg	-
n-butyl acetate	LD50 Oral	Rat - Male, Female	1880 mg/kg	-
	LC50 Inhalation Vapour	Rat	21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
Reaction mass of ethylbenzene and xylene	LD50 Oral	Rat	10768 mg/kg	-
	LC50 Inhalation Vapour	Rat	6350 to 6700 ppm	4 hours
	LD50 Dermal	Rabbit	121236 mg/kg	-
2-(2-butoxyethoxy)ethanol	LD50 Oral	Rat	3523 to 4000 mg/kg	-
	LD50 Dermal	Rabbit	2700 mg/kg	-
2,3-epoxypropyl neodecanoate	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Dermal	Rat	3800 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	LD50 Oral	Rat	>10 g/kg	-
	LD50 Dermal	Rat - Male, Female	>3170 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Oral	Rat - Male, Female	3230 mg/kg	-
	LD50 Oral	Rat	5050 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture	47735.1	20232.0	56844.0	72.4	N/A
Hydrocarbons, C9, aromatics	3492	N/A	N/A	N/A	N/A
5-methylhexan-2-one	3200	N/A	5000	11.11	N/A
isopentyl acetate	16600	N/A	N/A	N/A	N/A
2-butoxyethyl acetate	1880	1500	N/A	11	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
2-(2-butoxyethoxy)ethanol	4500	2700	N/A	N/A	N/A
2,3-epoxypropyl neodecanoate	N/A	3800	N/A	N/A	N/A
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3230	N/A	N/A	N/A	N/A
2-hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
isopentyl acetate	Skin - Erythema/Eschar	Rabbit	1.7	-	-
2-methylbutyl acetat	Skin - Mild irritant	Mammal - species unspecified	-	-	-
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
2-hydroxyethyl methacrylate	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Irritant	Rabbit	-	-	-

Sensitisation**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
2,3-epoxypropyl neodecanoate	-	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Positive

Carcinogenicity**Reproductive toxicity****Teratogenicity****Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects
Reaction mass of ethylbenzene and xylene	Category 3	-	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 2	-	-

Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

SECTION 11: Toxicological information

- Skin contact** : Adverse symptoms may include the following:
 irritation
 redness
 dryness
 cracking
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations

Delayed and immediate effects as well as 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** : Not available.

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

- Other information** : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hydrocarbons, C9, aromatics	Acute LC50 9.2 mg/l	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
5-methylhexan-2-one	Acute LC50 159000 µg/l Fresh water	Fish - Fathead minnow - <i>Pimephales promelas</i>	96 hours
isopentyl acetate	Acute LC50 11.1 mg/l	Fish	96 hours
2-butoxyethyl acetate	Chronic LC50 11 mg/l	Fish - Trout	96 hours
n-butyl acetate	Acute LC50 185 ppm Marine water	Fish - Inland silverside - <i>Menidia beryllina</i>	96 hours
Reaction mass of ethylbenzene and xylene	Acute EC50 2.2 mg/l	Algae - Algae - <i>Selenastrum capricornutum</i>	73 hours
	Acute LC50 1 mg/l	Daphnia - Daphnia - <i>Daphnia magna</i>	24 hours
	Acute LC50 2.6 mg/l	Fish - Trout - <i>Oncorhynchus mykiss</i>	96 hours
	Chronic NOEC 16 mg/l	Micro-organism - Activated sludge - <i>Activated sludge</i>	28 days
2-(2-butoxyethoxy)ethanol	Acute LC50 1300 ppm Fresh water	Fish - Bluegill - <i>Lepomis macrochirus</i>	96 hours
2,3-epoxypropyl	Acute LC50 9.6 mg/l	Fish	96 hours

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SECTION 12: Ecological information

neodecanoate	Chronic EC50 4.8 mg/l Acute EC50 1.68 mg/l Fresh water	Daphnia Algae	48 hours 72 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	Acute LC50 0.9 mg/l Chronic NOEC 1 mg/l Fresh water	Fish - <i>Brachydanio rerio</i> Daphnia	96 hours 21 days
2-hydroxyethyl methacrylate	Acute LC50 227000 µg/l Fresh water	Fish - Fathead minnow - <i>Pimephales promelas</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
isopentyl acetate	OECD 301C Ready Biodegradability - Modified MITI Test (I)	88 % - Readily - 28 days	-	-
2-butoxyethyl acetate	-	>60 % - Readily - 28 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
isopentyl acetate	-	-	Readily
2-butoxyethyl acetate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
5-methylhexan-2-one	1.88	-	Low
isopentyl acetate	2.25	-	Low
2-butoxyethyl acetate	1.51	-	Low
n-butyl acetate	2.3	-	Low
Reaction mass of ethylbenzene and xylene	3.16	-	Low
2-(2-butoxyethoxy)ethanol	1	-	Low
2,3-epoxypropyl neodecanoate	4.4	-	High
2-hydroxyethyl methacrylate	0.42	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 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 minimised 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 : Yes.

Waste catalogue

Waste code	Waste designation
08 01 17*	wastes from paint or varnish removal containing organic solvents or other hazardous substances





Packaging

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

Type of packaging	Waste catalogue
	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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

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

ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

Permasolid® HS Clear Coat

SECTION 14: Transport information

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 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
 GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = GB CLP-specific Hazard statement
 N/A = Not available
 PBT = Persistent, Bioaccumulative and Toxic

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SECTION 16: Other information

PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 SGG = Segregation Group
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
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.
H411	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

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - 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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Notice to reader

This product is intended for industrial use only.

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SECTION 16: Other information

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