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	:	REP/5LK Primer
Product name	:	Primer for REP/5LK Kit
Product type	:	Liquid.
Other means of identification	:	1250034083
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. Hoorgoorddreef 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]

Flam. Liq. 3, H226
Skin Sens. 1, H317
STOT SE 3, H335
STOT SE 3, H336
Aquatic Chronic 3, H412

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

Ingredients of unknown toxicity : 2.5 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

Ingredients of unknown ecotoxicity : Contains 2.5% 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 : n-butyl acetate
Hydrocarbons, C9, aromatics
Reaction mass of ethylbenzene and xylene
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

Hazard statements : H226 - Flammable liquid and vapor.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 - Wear protective gloves.
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 vapor.

Response : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
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.

SECTION 2: Hazards identification

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 sensitizer. It may also be a skin irritant and repeated contact may increase this effect.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
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]
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5	≥10 - ≤21	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40 EC: 905-588-0	≤8.5	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]
ethyl 3-ethoxypropionate	REACH #: 01-2119463267-34 EC: 212-112-9 CAS: 763-69-9	≤10	Flam. Liq. 3, H226 EUH066	-	[1]
2,6-dimethylheptan-4-one	REACH #: 01-2119474441-41 EC: 203-620-1 CAS: 108-83-8	≤3	Flam. Liq. 3, H226 STOT SE 3, H335	STOT SE 3, H335: C ≥ 10%	[1]

SECTION 3: Composition/information on ingredients

	Index: 606-005-00-X				
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3	<1.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[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	≤0.3	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	≤0.3	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 sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.3	Skin Sens. 1A, H317 Repr. 2, H361 (oral) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
ISOBUTYL METHACRYLATE	REACH #: 01-2119488331-38 EC: 202-613-0 CAS: 97-86-9 Index: 607-113-00-X	≤0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 STOT SE 3, H335	-	[1] [2]
2-hydroxyethyl methacrylate	REACH #: 01-2119490169-29 EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≤0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 **See Section 16 for the full text of the H statements declared above.**	-	[1]

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 : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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.

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 membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors 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, isobutyl methacrylate, 2-hydroxyethyl methacrylate. 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.

SECTION 4: First aid measures

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Recommended: alcohol-resistant foam, CO_2, 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
P5c	5000 tonnes	50000 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
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/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. **EU OEL (Europe, 1/2022)** STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm.
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/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³. **EU OEL (Europe, 1/2022)** TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m³.
ISOBUTYL METHACRYLATE	REACH #: 01-2119488331-38 EC: 202-613-0 CAS: 97-86-9 Index: 607-113-00-X	**Work environment authority Regulation 2018:1 (Sweden, 11/2022)** Sensitizer. TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 450 mg/m³.

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

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/m³
Effects: Systemic

DNEL - General population - Long term - Inhalation
35.7 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation
300 mg/m³
Effects: Systemic

DNEL - General population - Short term - Inhalation
300 mg/m³
Effects: Local

DNEL - General population - Short term - Inhalation
300 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
300 mg/m³
Effects: Local

DNEL - Workers - Short term - Inhalation
600 mg/m³
Effects: Local

DNEL - Workers - Short term - Inhalation

SECTION 8: Exposure controls/personal protection

	600 mg/m³ Effects: Systemic
Hydrocarbons, C9, aromatics	**DNEL - Workers - Long term - Inhalation** 151 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 12.5 mg/kg bw/day Effects: Systemic
Reaction mass of ethylbenzene and xylene	**DNEL - Workers - Long term - Dermal** 212 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 221 mg/m³ Effects: Systemic
ethyl 3-ethoxypropionate	**DNEL - Workers - Long term - Inhalation** 100.6 ppm Effects: Systemic **DNEL - General population - Long term - Oral** 1.2 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 3.1 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 8.85 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 72.6 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 610 mg/m³ Effects: Systemic
2,6-dimethylheptan-4-one	**DNEL - Workers - Long term - Inhalation** 81.3 ppm Effects: Systemic **DNEL - Workers - Long term - Dermal** 7.7 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 53 mg/m³ Effects: Systemic
butanone	**DNEL - Workers - Long term - Inhalation** 200.539 ppm

SECTION 8: Exposure controls/personal protection

	Effects: Systemic **DNEL - General population - Long term - Oral** 31 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 106 mg/m³ Effects: Systemic **DNEL - General population - Long term - Dermal** 412 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Inhalation** 450 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 600 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Inhalation** 900 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 1161 mg/kg bw/day Effects: Systemic
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 - Workers - Long term - Dermal** 0.5 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 0.35 mg/m³ Effects: Systemic
2,3-epoxypropyl neodecanoate	**DNEL - General population - Long term - Oral** 2.5 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 2.5 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 4 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 4.2 mg/kg bw/day Effects: Systemic

SECTION 8: Exposure controls/personal protection

	DNEL - Workers - Long term - Inhalation 5.88 mg/m³ Effects: 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/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 2 mg/kg Effects: Systemic **DNEL - General population - Long term - Oral** 0.18 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 0.31 mg/m³ Effects: Systemic **DNEL - General population - Long term - Dermal** 0.9 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 1.27 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 1.8 mg/kg bw/day Effects: Systemic
isobutyl methacrylate	**DNEL - General population - Long term - Dermal** 3 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 5 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 66.5 mg/m³ Effects: Systemic **DNEL - General population - Long term - Inhalation** 366.4 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 409 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 415.9 mg/m³ Effects: Systemic

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2-hydroxyethyl methacrylate	**DNEL - Workers - Long term - Inhalation** 0.908 ppm Effects: Systemic **DNEL - General population - Long term - Oral** 0.83 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 0.83 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 1.39 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 1.45 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 4.9 mg/m³ Effects: Systemic

PNECs

Product/ingredient name	Result
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 **Marine water sediment** 0.098 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**

SECTION 8: Exposure controls/personal protection

	12.46 mg/kg dwt **Soil** 2.31 mg/kg
ethyl 3-ethoxypropionate	**Marine water** 0.00609 mg/l **Fresh water** 0.0609 mg/l **Sediment** 0.0419 mg/l
2,6-dimethylheptan-4-one	**Marine water** 0.003 mg/l **Fresh water** 0.03 mg/l **Sediment** 0.46 mg/l
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 **Sewage Treatment Plant** 22.5 mg/kg
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** 0.0023 mg/l **Marine water** 0.00023 mg/l **Sewage Treatment Plant** 10 mg/l **Fresh water sediment** 3.06 mg/kg

SECTION 8: Exposure controls/personal protection

	Marine water sediment 0.306 mg/kg **Soil** 2 mg/kg **Secondary Poisoning** 0.028 mg/l
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
isobutyl methacrylate	**Fresh water - Assessment Factors** 0.021 mg/l **Marine water - Assessment Factors** 0.002 mg/l **Fresh water sediment - Equilibrium Partitioning** 5.89 mg/kg **Marine water sediment - Equilibrium Partitioning** 0.589 mg/kg **Soil - Equilibrium Partitioning** 1.16 mg/kg **Sewage Treatment Plant - Assessment Factors** 10 mg/l
2-hydroxyethyl methacrylate	**Fresh water** 0.482 mg/l **Marine water** 0.482 mg/l **Sewage Treatment Plant** 10 mg/l

SECTION 8: Exposure controls/personal protection

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 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. 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 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.

SECTION 8: Exposure controls/personal protection

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	:	Clear.
Odor	:	Not available.
Odor threshold	:	Not available.
Melting point/freezing point	:	Technically not possible to measure
Boiling point or initial boiling point and boiling range	:	125 to 200°C
Flammability	:	Not available.
Lower and upper explosion limit	:	Lower: 0.7% Upper: 9.8%
Lower and upper explosive (flammable) limits	:	Not available.
Flash point	:	Closed cup: 32°C
Auto-ignition temperature	:	280°C
Decomposition temperature	:	Not applicable.
pH	:	Not applicable.
Justification	:	Product is non-soluble (in water).
Viscosity	:	Dynamic (room temperature): 49 mPa·s Kinematic (room temperature): 50 mm^2/s Kinematic (40°C): Not available.
Vapor pressure		0.72 kPa (5.4 mm Hg)
Density	:	0.973 g/cm^3
Weight volatiles	:	58.7 % (w/w)
VOC content	:	57.9 % (w/w) (2010/75/EU)

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Flow time (ISO 2431) : 40 s (room temperature) [Jet diameter: 4 mm]

Further information Not available.

9.2.2 Other safety characteristics

Miscible with water : No.

Further information Not available.

SECTION 9: Physical and chemical properties

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.

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.

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 membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors 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, isobutyl methacrylate, 2-hydroxyethyl methacrylate. May produce an allergic reaction.

SECTION 11: Toxicological information

Acute toxicity

Product/ingredient name	Result
n-butyl acetate	**Rat - Oral - LD50** 10768 mg/kg Toxic effects: Behavioral - Somnolence (general depressed 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]
Hydrocarbons, C9, aromatics	**Rat - Female - Oral - LD50** 3492 mg/kg OECD 401 **Rabbit - Dermal - LD50** >3160 mg/kg OECD 402
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]
ethyl 3-ethoxypropionate	**Rat - Oral - LD50** 3200 mg/kg Toxic effects: Behavioral - Ataxia **Rat - Male - Dermal - LD50** 4080 mg/kg
2,6-dimethylheptan-4-one	**Rat - Oral - LD50** 5750 mg/kg **Rabbit - Dermal - LD50** 16120 mg/kg
butanone	**Rabbit - Dermal - LD50** 6480 mg/kg **Rat - Oral - LD50** 2737 mg/kg
2,3-epoxypropyl neodecanoate	**Rat - Oral - LD50** >10 g/kg Toxic effects: Behavioral - Ataxia Gross Metabolite Changes - Weight loss or decreased weight gain **Rat - Dermal - LD50** 3800 mg/kg

SECTION 11: Toxicological information

	OECD [Acute Dermal Toxicity]
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]
2-hydroxyethyl methacrylate	**Rat - Oral - LD50** 5050 mg/kg Toxic effects: Behavioral - Coma

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	N/A	13272.4	N/A	132.7	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
Hydrocarbons, C9, aromatics	3492	N/A	N/A	N/A	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
ethyl 3-ethoxypropionate	3200	4080	N/A	N/A	N/A
2,6-dimethylheptan-4-one	5750	16120	N/A	N/A	N/A
butanone	2737	6480	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

Skin corrosion/irritation

Product/ingredient name	Result
ethyl 3-ethoxypropionate	**Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
butanone	**Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 14 mg **Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 402 mg **Rabbit - Skin - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
2-hydroxyethyl methacrylate	**Rabbit - Skin - Irritant**

SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Product/ingredient name	Result
2,3-epoxypropyl neodecanoate	**In vivo - Mammalian-Animal - Somatic** Result: Positive

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
n-butyl acetate	STOT SE 3, H336 (Narcotic effects)
Hydrocarbons, C9, aromatics	STOT SE 3, H335 (Respiratory tract irritation) STOT SE 3, H336 (Narcotic effects)
Reaction mass of ethylbenzene and xylene	STOT SE 3, H335 (Respiratory tract irritation)
2,6-dimethylheptan-4-one	STOT SE 3, H335 (Respiratory tract irritation)
butanone	STOT SE 3, H336 (Narcotic effects)
isobutyl methacrylate	STOT SE 3, H335 (Respiratory tract irritation)

SECTION 11: Toxicological information

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
Hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1
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 : No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

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:
irritation
redness
dryness
cracking

Ingestion : No specific data.

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 : 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.

SECTION 11: Toxicological information

Carcinogenicity : No known significant effects or critical hazards.

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 classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result
n-butyl acetate	**Acute - LC50 - Marine water** Fish - Inland silverside - *Menidia beryllina* 185 ppm [96 hours] Effect: Mortality
Hydrocarbons, C9, aromatics	**Acute - LC50** OECD 203 Fish - Trout - *Oncorhynchus mykiss* 9.2 mg/l [96 hours]
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]
ethyl 3-ethoxypropionate	**Acute - LC50** OECD [Fish, Acute Toxicity Test]

SECTION 12: Ecological information

	Fish 45.3 to 55.3 mg/l [96 hours]
butanone	**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
2,3-epoxypropyl neodecanoate	**Acute - LC50** OECD [Fish, Acute Toxicity Test] Fish 9.6 mg/l [96 hours] **Chronic - EC50** OECD [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia 4.8 mg/l [48 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** 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]
2-hydroxyethyl methacrylate	**Acute - LC50 - Fresh water** Fish - Fathead minnow - *Pimephales promelas* - Juvenile (Fledgling, Hatchling, Weanling) Age: 28 to 34 days; Size: 20.9 mm; Weight: 0.134 g 227 mg/l [96 hours] Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

SECTION 12: Ecological information

Product/ingredient name	Result
ethyl 3-ethoxypropionate	OECD [Ready Biodegradability - CO_2 Evolution Test] 80% [13 days] - Readily

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethyl 3-ethoxypropionate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
n-butyl acetate	2.3	-	Low
Reaction mass of ethylbenzene and xylene	3.16	-	Low
ethyl 3-ethoxypropionate	1.47	-	Low
2,6-dimethylheptan-4-one	3.71	-	Low
butanone	0.3	-	Low
2,3-epoxypropyl neodecanoate	4.4	-	High
isobutyl methacrylate	2.95	-	Low
2-hydroxyethyl methacrylate	0.42	-	Low

12.4 Mobility in soil

Soil/Water partition coefficient

Product/ingredient name	logKoc	Koc
n-butyl acetate	1.52	33.2139
ethyl 3-ethoxypropionate	1.44	27.5573
2,6-dimethylheptan-4-one	2.33	213.676
butanone	1.2	15.8984
isobutyl methacrylate	1.58	38.4154
2-hydroxyethyl methacrylate	1.32	20.9282

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
n-butyl acetate	No	No	Yes	No	No	No	Yes
Hydrocarbons, C9, aromatics	No	No	No	No	No	No	No
Reaction mass of ethylbenzene and xylene	No	No	No	No	No	No	No
ethyl 3-ethoxypropionate	No	No	Yes	No	No	No	Yes
2,6-dimethylheptan-4-one	No	No	Yes	No	No	No	No
butanone	No	No	Yes	No	No	No	Yes
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-	No	No	No	No	No	No	No

SECTION 12: Ecological information

butyl-4-hydroxyphenyl) propionyloxypoly (oxyethylene)							
2,3-epoxypropyl neodecanoate	No	No	No	Yes	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
isobutyl methacrylate	No	No	Yes	No	No	No	Yes
2-hydroxyethyl methacrylate	No	No	Yes	No	No	No	Yes

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
n-butyl acetate	No	No	No	No	No	No	No
Hydrocarbons, C9, aromatics	No	No	No	No	No	No	No
Reaction mass of ethylbenzene and xylene	No	No	No	No	No	No	No
ethyl 3-ethoxypropionate	No	No	No	No	No	No	No
2,6-dimethylheptan-4-one	No	No	No	No	No	No	No
butanone	No	No	No	No	No	No	No
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)	No	No	No	No	No	No	No
2,3-epoxypropyl neodecanoate	No	No	No	Yes	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
isobutyl methacrylate	No	No	No	No	No	No	No
2-hydroxyethyl methacrylate	No	No	No	No	No	No	No

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

SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
n-butyl acetate	No	No	No	No	No	No	No
Hydrocarbons, C9, aromatics	No	No	No	No	No	No	No
Reaction mass of ethylbenzene and xylene	No	No	No	No	No	No	No
ethyl 3-ethoxypropionate	No	No	No	No	No	No	No
2,6-dimethylheptan-4-one	No	No	No	No	No	No	No
butanone	No	No	No	No	No	No	No
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)	No	No	No	No	No	No	No
2,3-epoxypropyl neodecanoate	No	No	No	Yes	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
isobutyl methacrylate	No	No	No	No	No	No	No
2-hydroxyethyl methacrylate	No	No	No	No	No	No	No

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

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

SECTION 13: Disposal considerations

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

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. 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID 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

SECTION 14: Transport information

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.

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

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.

SECTION 15: Regulatory information

Flammable liquid class (SRVFS 2005:10) : 2b

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
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
Flam. Liq. 3, H226	On basis of test data
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

SECTION 16: Other information

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
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 [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
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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SECTION 16: Other information

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