

1/16

# 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	: U3210	
Product name	: STANDOFLEX 2K PLASTIC HARDENER	
Product type	: Liquid.	
Other means of identification	: 4024669825602	
Date of issue	: 5 February 2024	
Version	: 1.1	
Date of previous issue	: 18 January 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 Gerr Christbusch 25 DE 42285 Wuppertal +49 (0)202 529-0	many GmbH & Co. KG	
e-mail address of person responsible for this SDS	: sds-competence@axalta.com	
1.4 Emergency telephone number		
<u>Supplier</u> Telephone number Hours of operation	: +(44)-870-8200418 :	

# **SECTION 2: Hazards identification**

2.1 Classification of the sul	stance or mixture
Product definition	: Mixture
Classification according t	<u>) UK CLP/GHS</u>
Flam. Liq. 3, H226	
Acute Tox. 4, H312	
Acute Tox. 4, H332	
Skin Irrit. 2, H315	
Eye Dam. 1, H318	
STOT SE 3, H335	
STOT RE 2, H373	
Asp. Tox. 1, H304	
Aquatic Chronic 3, H412	
The product is classified as	nazardous according to UK CLP Regulation SI 2019/720 as amended.
Ingredients of unknown ecotoxicity	: Contains 2.7% of components with unknown hazards to the aquatic environment

Date of issue/Date of revision	: 2/5/2024	Date of previous issue	: 1/18/2024	Version : 1.1
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# **SECTION 2: Hazards identification**

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.

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#### 2.2 Label elements

Hazard pictograms

Signal word	: Danger
Contains	: Reaction mass of ethylbenzene and xylene propan-1-ol
Hazard statements	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H304 - May be fatal if swallowed and enters airways.</li> <li>H312 + H332 - Harmful in contact with skin or if inhaled.</li> <li>H315 - Causes skin irritation.</li> <li>H318 - Causes serious eye damage.</li> <li>H335 - May cause respiratory irritation.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P280 - Wear protective gloves and protective clothing. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P260 - Do not breathe vapour.</li> </ul>
Response	<ul> <li>P301 + P331 - IF SWALLOWED: Do NOT induce vomiting.</li> <li>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: 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 se	nsitiser. 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	Туре
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40 EC: 905-588-0	≥75 - ≤90	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]
propan-1-ol	REACH #: 01-2119486761-29 EC: 200-746-9 CAS: 71-23-8	≤5	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336	[1] [2]
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
p-tert-butylphenyl 1-(2,3-epoxy) propyl ether	REACH #: 01-2119959496-20 EC: 221-453-2 CAS: 3101-60-8	≤0.2	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
			See Section 16 for the full text of the H statements declared above.	

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.

<u>Type</u>

[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	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

<b>SECTION 4:</b>	First aid	measures
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Ingestion	: Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. 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. 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

#### Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains nausea or vomiting

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

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 f drains or watercourses.Special protective equipment for fire-fighters:Appropriate breathing apparatus may be required.			
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<ul> <li>Hazards from the substance or mixture</li> <li>Hazardous combustion products</li> <li>Becomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.</li> <li>5.3 Advice for firefighters</li> <li>Special protective actions for fire-fighters</li> <li>Special protective equipment for fire-fighters</li> <li>Appropriate breathing apparatus may be required.</li> </ul>		:	Do not use water jet.
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for fire-fighters       drains or watercourses.         Special protective equipment for fire-fighters       Appropriate breathing apparatus may be required.	5.3 Advice for firefighters		
equipment for fire-fighters	• •	:	· · ·
Date of issue/Date of revision       : 2/5/2024       Date of previous issue       : 1/18/2024       Version       : 1.1		:	Appropriate breathing apparatus may be required.
	Date of issue/Date of revision		: 2/5/2024 Date of previous issue : 1/18/2024 Version : 1.1 4/16

# **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.

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	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

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

# **SECTION 7: Handling and storage**

### 7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
propan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 625 mg/m <sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. TWA: 500 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.

#### **Biological exposure indices**

No exposure indices known.

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

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Reaction mass of ethylbenzene and xylene	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
propan-1-ol	DNEL	Short term Inhalation	1037 mg/ m³	Workers	Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	DNEL	Long term Dermal	0.75 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemic
p-tert-butylphenyl 1-(2,3-epoxy) propyl ether	DNEL	Short term Dermal	0.95 μg/ cm²	General population	Local
,	DNEL	Long term Dermal	0.95 µg/ cm²	General population	Local
	DNEL	Short term Dermal	1.6 µg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	1.6 µg/cm <sup>2</sup>	Workers	Local
	DNEL	Short term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.75 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	1.75 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	3.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	3.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	3.5 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	3.5 mg/m³	Workers	Systemic

# **SECTION 8: Exposure controls/personal protection**

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
Reaction mass of ethylbenzene and xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg	-
propan-1-ol	Marine water	0.683 mg/l	-
	Sediment	27.5 mg/kg	-
	Soil	1.49 mg/kg	-
	Sewage Treatment Plant	96 mg/l	-
	Fresh water	6.83 mg/l	-
	Marine water sediment	2.75 mg/kg	-
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Fresh water	0.006 mg/l	-
	Marine water	0.001 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	0.341 mg/kg dwt	-
	Marine water sediment	0.034 mg/kg dwt	-
	Soil	0.065 mg/kg dwt	-

#### 8.2 Exposure controls

Appropriate engineering	: Provide adequate ventilation. Where reasonably practicable, this should be
controls	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.
	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

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### **SECTION 8: Exposure controls/personal protection**

	The user must check that the final choice of type of glove selected for handlir product is the most appropriate and takes into account the particular conditio 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 shoul approved by a specialist before handling this product.	
Respiratory protection	If workers are exposed to concentrations above the exposure limit, they must appropriate, certified respirators.	t use
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

<u>Appearance</u>			
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	:	138 to 142°C (280.4 to 287.6°F)	
boiling range			
Flammability (solid, gas)	:	Not available.	
Upper/lower flammability or	:	Lower: 1%	
explosive limits		Upper: 6.6%	
Flash point		Closed cup: 24°C (75.2°F)	
Auto-ignition temperature		400°C (752°F)	
Decomposition temperature	;	Not applicable.	
рН	;	Not applicable.	
Viscosity	:	Dynamic (room temperature): 20 mPa·s Kinematic (room temperature): 23 mm²/s Kinematic (40°C): <20.5 mm²/s	
Solubility in water	:	Not available.	
Miscible with water	:	No.	
Partition coefficient: n-octanol/ water	:	Not applicable.	
Vapour pressure	:	0.96 kPa (7.2 mm Hg)	
Relative density	:	Not available.	
Density	:	0.87 g/cm³	
Vapour density	:	Not available.	
Explosive properties	:	Not available.	
Oxidising properties	:	Not available.	
Weight volatiles	:	91.3 % (w/w)	
VOC content	:	91.3 % (w/w)	(2010/75/EU)

room temperature (=20°C)

SECTION 10: Stabilit	y 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 sensitiser 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 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, p-tert-butylphenyl 1-(2,3-epoxy)propyl ether. May produce an allergic reaction.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Reaction mass of ethylbenzene and xylene	LC50 Inhalation Vapour	Rat	6350 to 6700 ppm	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	121236 mg/kg 3523 to 4000	-
propan-1-ol	LD50 Dermal LD50 Oral	Rabbit Rat	mg/kg 5040 mg/kg 2200 mg/kg	-

#### Acute toxicity estimates

# **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture	N/A	1261.5	N/A	12.6	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
propan-1-ol	2200	5040	N/A	N/A	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
propan-1-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Mild irritant	Human	-	47 hours 100 %	-
	Skin - Mild irritant	Human	-	24 hours 100	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 mg	-
(cpicinioniyanin), cpoxy resiri	Skin - Moderate irritant	Rabbit	-	24 hours 500 uL	-
	Skin - Severe irritant	Rabbit	-	u∟ 24 hours 2 mg	-

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
p-tert-butylphenyl 1- (2,3-epoxy)propyl ether	skin	Mouse	Sensitising

#### **Mutagenicity**

**Carcinogenicity** 

#### **Reproductive toxicity**

**Teratogenicity** 

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 3		Respiratory tract irritation
propan-1-ol	Category 3	-	Narcotic effects

#### 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
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

#### Information on likely routes : Not available.

#### of exposure

	-	
sure		

#### Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Harmful in contact with skin. Causes skin irritation.

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# **SECTION 11: Toxicological information**

Ingestion	: May be fatal if swallowed and enters airwa	iys.
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#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains nausea or vomiting

#### 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 effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure.
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.

#### Other information

: Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Reaction mass of ethylbenzene and xylene	Acute EC50 2.2 mg/l	Algae - Algae - Selenastrum capricornutum	73 hours
	Acute LC50 1 mg/l	Daphnia - Daphnia - Daphnia magna	24 hours
	Acute LC50 2.6 mg/l	Fish - Trout - Oncorhynchus mykiss	96 hours
	Chronic NOEC 16 mg/l	Micro-organism - Activated sludge - Activated sludge	28 days
propan-1-ol	Acute EC50 4480000 µg/l Fresh water	Algae - Green algae - Selenastrum sp.	96 hours
	Acute LC50 1000000 µg/l Fresh water	Crustaceans - Scud - Gammarus pulex	48 hours
	Acute LC50 2950000 µg/l Fresh water	Daphnia - Water flea - Daphnia pulex	48 hours
	Acute LC50 3800000 µg/l Marine water		96 hours
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# **SECTION 12: Ecological information**

reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	EC50 11 mg/l	Algae	72 hours
p-tert-butylphenyl 1- (2,3-epoxy)propyl ether	EC50 1.8 mg/l LC50 2 mg/l Acute EC50 9 mg/l	Daphnia Fish Algae	48 hours 96 hours 72 hours
(=,0 -p	Acute LC50 67.9 mg/l Acute LC50 7.5 mg/l	Daphnia Fish	48 hours 96 hours

Conclusion/Summary

: Not available.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
p-tert-butylphenyl 1- (2,3-epoxy)propyl ether	OECD 301D Ready Biodegradability - Closed Bottle Test	1.1 % - Not readily - 28 days	-	-
Conclusion/Summary	: Not available.			
Product/ingredient name	Aquatic half-life	Photolys	is	Biodegradability

Not readily

# 12.3 Bioaccumulative potential

p-tert-butylphenyl 1-

(2,3-epoxy)propyl ether

Product/ingredient name	LogPow	BCF	Potential
Reaction mass of ethylbenzene and xylene	3.16	-	Low
propan-1-ol	0.2	-	Low
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: 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

<u>Product</u> Methods of disposal	Disposal o with the rea any region products vi	ation of waste should be a f this product, solutions a quirements of environmen al local authority requirem ia a licensed waste dispo- to the sewer unless fully o ction.	nd any by-products s ntal protection and wa nents. Dispose of su sal contractor. Wast	hould at all time aste disposal le rplus and non-r e should not be	es com egislatic ecyclat e dispos	n and ble sed of
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# **SECTION 13: Disposal considerations**

Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.		
<u>Packaging</u>			
Methods of disposal	<ul> <li>The generation of waste should be avoided or minimised wherever possible. Was packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</li> </ul>		
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 RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	111			
14.5 Environmental hazards	No.	Yes.	No.	No.

ADR/RID	:	<u>Tunnel code</u> (D/E)
ADN	:	The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
14.6 Special precautions for user	:	<b>Transport within user's premises:</b> 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	:	Not available.

instruments

### **SECTION 15: Regulatory information**

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

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

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# **SECTION 15: Regulatory information**

None of the components are listed.

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

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### <u>Danger criteria</u>

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

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>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 PNEC = Predicted No Effect Concentration RRN = REACH Registration Number</li> </ul>
	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	On basis of test data
Acute Tox. 4, H312	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

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STANDOFLEX 2K PLASTIC HARDENER

### **SECTION 16: Other information**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
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 Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - 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
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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Version

#### Notice to reader

This product is intended for industrial use only.

: 1.1

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**SECTION 16: Other information**