



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 : 4530S
Product name : Centari® Mastertint® Flop Control Agent
Product type : Liquid.
Other means of identification : 1250073590; 1250091874; 6922978600270; 6956418014822
Date of issue : 25 October 2022
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

Axalta Coating Systems Germany GmbH & Co. KG
Christbusch 25
DE 42285 Wuppertal
+49 (0)202 529-0

e-mail address of person responsible for this SDS : sds-competence@axalta.com

Axalta Coating Systems UK Ltd.
Unit 1, Quadrant Park, Mundells
GB Welwyn Garden City, Hertfordshire, AL7 1FS
+44 (0)1707 518 000

1.4 Emergency telephone number

Supplier

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Dam. 1, H318
STOT SE 3, H335
STOT SE 3, H336
STOT RE 1, H372
Aquatic Chronic 3, H412

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

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.

2.2 Label elements

Hazard pictograms :



Signal word :

Danger

Hazard statements :

H226 - Flammable liquid and vapour.
 H315 - Causes skin irritation.
 H318 - Causes serious eye damage.
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H372 - Causes damage to organs through prolonged or repeated exposure.
 H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention :

P280 - Wear protective gloves. Wear eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P273 - Avoid release to the environment.
 P260 - Do not breathe vapour.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash thoroughly after handling.

Response :

P314 - Get medical advice/attention if you feel unwell.
 P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
 P362 + P364 - Take off contaminated clothing and wash it before reuse.
 P302 + P352 - IF ON SKIN: Wash with plenty of water.
 P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage :

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal :

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements :

EUH208 - Contains Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde, methyl methacrylate, n-butyl methacrylate and 2-hydroxyethyl acrylate. 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.

SECTION 3: Composition/information on ingredients**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40 EC: 905-588-0	≥10 - ≤25	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]
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]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1	≥10 - ≤25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	REACH #: 01-2119458049-33 EC: 919-446-0 CAS: 64742-82-1	≥10 - <25	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
Silica gel, pptd., cryst.-free	REACH #: 01-2119379499-16 CAS: 112926-00-8	≤10	Not classified.	[2]
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde	REACH #: 01-2120771590-53 EC: 279-510-2 CAS: 80584-99-2	<1	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
1,2,4-trimethylbenzene	EC: 202-436-9 CAS: 95-63-6	<1	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
n-butyl methacrylate	REACH #: 01-2119486394-28 EC: 202-615-1 CAS: 97-88-1	<1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335	[1]
xylene	REACH #: 01-2119539452-40 EC: 215-535-7 CAS: 1330-20-7	<1	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	[1] [2]

SECTION 3: Composition/information on ingredients

mesitylene	EC: 203-604-4 CAS: 108-67-8	≤0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
2-hydroxyethyl acrylate	REACH #: 01-2119459345-34 EC: 212-454-9 CAS: 818-61-1 Index: 607-072-00-8	<0.2	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4	≤0.3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
benzene	EC: 200-753-7 CAS: 71-43-2	<0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304	[1] [2]
acrylic acid	REACH #: 01-2119452449-31 EC: 201-177-9 CAS: 79-10-7 Index: 607-061-00-8	<0.1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	[1] [2]
ethylene oxide	EC: 200-849-9 CAS: 75-21-8 Index: 603-023-00-X	<0.1	Flam. Gas 1A, H220 Chem. Unst. Gas A, H230 Press. Gas (Comp.), H280 Acute Tox. 3, H301 Acute Tox. 3, H331 Skin Corr. 1, H314 Eye Dam. 1, H318 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360Fd STOT SE 3, H335 STOT SE 3, H336 STOT RE 1, H372 (nervous system) See Section 16 for the full text of the H statements declared above.	[1] [2]

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.

SECTION 3: Composition/information on ingredients

Type

[1] Substance classified with a 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.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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.
- 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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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
 nausea or vomiting
 headache
 drowsiness/fatigue
 dizziness/vertigo
 unconsciousness
- Skin contact** : Adverse symptoms may include the following:
 pain or irritation
 redness
 blistering may occur

SECTION 4: First aid measures

Ingestion : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Recommended: alcohol-resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

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

5.3 Advice for firefighters

Special protective actions for fire-fighters : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

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

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds

Danger criteria

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

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
2-methylpropan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 231 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 154 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Silica gel, pptd., cryst.-free	EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica,

SECTION 8: Exposure controls/personal protection

Isopropyl alcohol	amorphous] TWA: 2.4 mg/m ³ 8 hours. Form: respirable dust TWA: 6 mg/m ³ 8 hours. Form: inhalable dust EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 1250 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m ³ 8 hours. TWA: 400 ppm 8 hours.
methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 416 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
1,2,4-trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [trimethylbenzenes, all isomers or mixtures] TWA: 25 ppm 8 hours. TWA: 125 mg/m ³ 8 hours.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.
mesitylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [trimethylbenzenes, all isomers or mixtures] TWA: 25 ppm 8 hours. TWA: 125 mg/m ³ 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m ³ 8 hours.
benzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. TWA: 1 ppm 8 hours. TWA: 3.25 mg/m ³ 8 hours.
acrylic acid	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 59 mg/m ³ 1 minutes. STEL: 20 ppm 1 minutes. TWA: 29 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
ethylene oxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. TWA: 1 ppm 8 hours. TWA: 1.8 mg/m ³ 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-,m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

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

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Type	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 ³	Workers	Systemic	
n-butyl acetate	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	12 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	48 mg/m ³	Workers	Systemic	
	DNEL	Long term Inhalation	100 ppm	Workers	Systemic	
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local	
	DNEL	Long term Inhalation	59.8 ppm	Workers	Systemic	
	DNEL	Long term Inhalation	44 mg/kg	Workers	Systemic	
	DNEL	Long term Inhalation	0.41 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	1.9 mg/m ³	Workers	Systemic	
	DNEL	Long term Inhalation	178.57 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	640 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	837.5 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	1066.67 mg/m ³	Workers	Local	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	DNEL	Short term Inhalation	1152 mg/m ³	General population	Systemic	
	DNEL	Short term Inhalation	1286.4 mg/m ³	Workers	Systemic	
	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	89 mg/m ³	General population	Systemic	
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	500 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Dermal	0.467 mg/kg bw/day	Workers	Systemic	
	Isopropyl alcohol	DNEL	Long term Dermal	0.467 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Dermal	0.467 mg/kg bw/day	Workers	Systemic
Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol		DNEL	Long term Dermal	0.467 mg/kg bw/day	Workers	Systemic

SECTION 8: Exposure controls/personal protection

and formaldehyde	DNEL	Long term Inhalation	1.64 mg/m ³	Workers	Systemic	
methyl methacrylate	DNEL	Long term Oral	8.2 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Inhalation	208 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	416 mg/m ³	Workers	Local	
	DNEL	Short term Dermal	1.5 mg/cm ²	General population	Local	
	DNEL	Long term Dermal	1.5 mg/cm ²	General population	Local	
	DNEL	Short term Dermal	1.5 mg/cm ²	Workers	Local	
	DNEL	Long term Dermal	1.5 mg/cm ²	Workers	Local	
	DNEL	Long term Dermal	8.2 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	13.67 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	74.3 mg/m ³	General population	Systemic	
1,2,4-trimethylbenzene	DNEL	Long term Inhalation	104 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	208 mg/m ³	Workers	Local	
	DNEL	Long term Inhalation	348.4 mg/m ³	Workers	Systemic	
	DNEL	Long term Oral	15 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Inhalation	29.4 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	29.4 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	29.4 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	29.4 mg/m ³	General population	Systemic	
	DNEL	Short term Inhalation	100 mg/m ³	Workers	Local	
	DNEL	Long term Inhalation	100 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	100 mg/m ³	Workers	Systemic	
	DNEL	Long term Inhalation	100 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	9512 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	16171 mg/kg bw/day	Workers	Systemic	
	n-butyl methacrylate	DNEL	Long term Dermal	3 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	5 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	66.5 mg/m ³	General population	Systemic
		DNEL	Long term Inhalation	366.4 mg/m ³	General population	Local
DNEL		Long term Inhalation	409 mg/m ³	Workers	Local	
DNEL		Long term Inhalation	415.9 mg/m ³	Workers	Systemic	
DNEL		Short term Dermal	1 %	General population	Local	
DNEL		Long term Dermal	1 %	General	Local	

SECTION 8: Exposure controls/personal protection

xylene	DNEL	Short term Dermal	1 %	Workers	Local	
	DNEL	Long term Dermal	1 %	Workers	Local	
	DNEL	Long term Inhalation	50.17 ppm	Workers	Systemic	
	DNEL	Long term Dermal	3182 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local	
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic	
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic	
mesitylene	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic	
	DNEL	Long term Oral	15 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Inhalation	29.4 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	29.4 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	29.4 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	29.4 mg/m ³	General population	Systemic	
	DNEL	Short term Inhalation	100 mg/m ³	Workers	Local	
	DNEL	Long term Inhalation	100 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	100 mg/m ³	Workers	Systemic	
	DNEL	Long term Inhalation	100 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	9512 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	16171 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	1.2 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	2.4 mg/m ³	Workers	Local	
	2-hydroxyethyl acrylate	DNEL	Long term Inhalation	17.73 ppm	Workers	Systemic
	ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
DNEL		Long term Inhalation	77 mg/m ³	Workers	Systemic	
DNEL		Long term Dermal	180 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Inhalation	293 mg/m ³	Workers	Local	
DMEL		Long term Inhalation	442 mg/m ³	Workers	Local	
DMEL		Short term Inhalation	884 mg/m ³	Workers	Systemic	

SECTION 8: Exposure controls/personal protection

benzene	DNEL	Inhalation Long term	0.14 mg/m ³	General population	Systemic
	DNEL	Inhalation Short term	30 mg/m ³	Workers	Local
acrylic acid	DNEL	Inhalation Long term	30 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	30 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term	30 mg/m ³	Workers	Systemic
	DNEL	Inhalation Short term Dermal	1 mg/cm ²	General population	Local
ethylene oxide	DNEL	Short term Inhalation	3.6 mg/m ³	General population	Local
	DNEL	Long term Inhalation	3.6 mg/m ³	General population	Local
	DMEL	Long term Inhalation	1.8 mg/m ³	Workers	Local
	DMEL	Long term Inhalation	1.8 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	10 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	10 mg/m ³	Workers	Systemic

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	-
n-butyl acetate	Soil	0.09 mg/kg	-
	Fresh water	0.18 mg/l	-
	Sewage Treatment Plant	35.6 mg/l	-
2-methylpropan-1-ol	Marine water	0.018 mg/l	-
	Marine water	0.04 mg/l	-
	Fresh water	0.4 mg/l	-
	Sediment	1.52 mg/l	-
	Marine water sediment	0.156 mg/kg	-
	Soil	765 mg/kg	-
Isopropyl alcohol	Sewage Treatment Plant	10 mg/l	-
	Fresh water	140.9 mg/l	-
	Marine water	140.9 mg/l	-
	Fresh water sediment	552 mg/kg	-
	Marine water sediment	552 mg/kg	-
	Soil	28 mg/kg	-
methyl methacrylate	Sewage Treatment Plant	2251 mg/kg	-
	Fresh water	0.94 mg/l	-
	Fresh water sediment	10.2 mg/kg dwt	-
	Marine water	0.094 mg/l	-
	Marine water sediment	10.02 mg/kg dwt	-
	Soil	1.48 mg/kg dwt	-
xylene	Sewage Treatment Plant	10 mg/l	-
	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Marine water sediment	12.46 mg/kg	-

SECTION 8: Exposure controls/personal protection

ethylbenzene	Soil	2.31 mg/kg	-
	Sewage Treatment Plant	6.58 mg/l	-
	Sewage Treatment Plant	9.6 mg/l	-
	Marine water	0.01 mg/l	-
	Fresh water	0.1 mg/l	-
	Soil	2.68 mg/kg	-
	Sediment	1.37 mg/kg	-

8.2 Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Use safety eyewear designed to protect against splash of liquids.

Skin protection

Hand protection

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

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

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

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

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

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

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

Gloves : Duration / breakthrough time: <1 hour,
 Glove material: NBR, nitrile rubber, material thickness as splash protection: at least 0.2 mm, (EN374)
 Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least 0.5 mm, (EN374)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

Expert judgment

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

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

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

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

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties**Appearance**

Physical state	: Liquid.
Colour	: Milky.
Odour	: Not available.
Odour threshold	: Not available.
Melting point/freezing point	: Not applicable.
Initial boiling point and boiling range	: 106 to 220°C (222.8 to 428°F)
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Lower: 0.6% Upper: 10.6%
Flash point	: Closed cup: 25°C (77°F)
Auto-ignition temperature	: 280°C (536°F)
Decomposition temperature	: Not applicable.
pH	: Not applicable.
Viscosity	: Dynamic: 357 mPa·s Kinematic: 369 mm ² /s
Solubility(ies)	:

Media	Result
cold water	Partially soluble

Solubility in water	: Not available.
Miscible with water	: No.
Partition coefficient: n-octanol/ water	: Not applicable.
Vapour pressure	: 0.64 kPa (4.8 mm Hg)
Relative density	: Not available.
Density	: 0.968 g/cm ³
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Weight volatiles	: 55.9 % (w/w)
VOC content	: 55.8 % (w/w) (2010/75/EU)

Particle characteristics

Median particle size : Not applicable.

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.

SECTION 10: Stability and reactivity

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****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	Rabbit	121236 mg/kg	-
	LD50 Oral	Rat	3523 to 4000 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
2-methylpropan-1-ol	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Silica gel, pptd., cryst.-free Isopropyl alcohol	LC50 Inhalation Vapour	Rat	58800 mg/m ³	4 hours
	LC50 Inhalation Vapour	Rat - Male, Female	37.5 mg/l	4 hours
methyl methacrylate	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LC50 Inhalation Vapour	Rat	78000 mg/m ³	4 hours
1,2,4-trimethylbenzene	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
	LC50 Inhalation Vapour	Rat	18000 mg/m ³	4 hours

SECTION 11: Toxicological information

n-butyl methacrylate	LD50 Oral	Rat	5 g/kg	-
	LC50 Inhalation Vapour	Rat	29 mg/l	4 hours
	LD50 Dermal	Rat	17900 mg/kg	-
xylene	LD50 Oral	Rat	16 g/kg	-
	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
mesitylene	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
2-hydroxyethyl acrylate	LD50 Dermal	Rat	1001 mg/kg	-
	LD50 Oral	Rat	548 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
benzene	LD50 Oral	Mammal - species unspecified	5700 mg/kg	-
	LD50 Oral	Mouse	4700 mg/kg	-
	LD50 Oral	Rat	6400 mg/kg	-
	LDLo Oral	Dog	2 g/kg	-
	LDLo Oral	Human	0.7 mL/kg	-
	LDLo Oral	Man - Male	50 mg/kg	-
	LD50 Dermal	Rabbit	2001 mg/kg	-
acrylic acid	LD50 Oral	Rat	1337 mg/kg	-
	LC50 Inhalation Gas.	Rat	800 ppm	4 hours
ethylene oxide	LD50 Oral	Rat	72 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture	N/A	6638.6	N/A	68.5	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
2-methylpropan-1-ol	2460	3400	N/A	N/A	N/A
Silica gel, pptd., cryst.-free	N/A	N/A	N/A	58.8	N/A
Isopropyl alcohol	5000	12800	N/A	37.5	N/A
methyl methacrylate	7872	N/A	N/A	78	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	N/A
n-butyl methacrylate	16000	17900	N/A	29	N/A
xylene	4300	1100	N/A	11	N/A
mesitylene	5000	N/A	N/A	24	N/A
2-hydroxyethyl acrylate	548	300	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
benzene	6400	N/A	N/A	N/A	N/A
acrylic acid	1337	1100	N/A	11	N/A
ethylene oxide	100	N/A	700	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
n-butyl methacrylate xylene	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 uL	-
	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
mesitylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-

SECTION 11: Toxicological information

2-hydroxyethyl acrylate	Skin - Moderate irritant	Rabbit	-	mg 24 hours 20	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 10	-
ethylbenzene	Skin - Moderate irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
benzene	Eyes - Moderate irritant	Rabbit	-	mg 88 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
ethylene oxide	Skin - Mild irritant	Rabbit	-	mg 24 hours 15	-
	Skin - Mild irritant	Rat	-	mg 8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
	Eyes - Moderate irritant	Rabbit	-	mg 6 hours 18	-
					mg

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde	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
n-butyl acetate	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 3	-	Narcotic effects
	Category 3	-	Narcotic effects
Isopropyl alcohol	Category 3	-	Narcotic effects
methyl methacrylate	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
n-butyl methacrylate	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
mesitylene	Category 3	-	Respiratory tract irritation
acrylic acid	Category 3	-	Respiratory tract irritation
ethylene oxide	Category 3	-	Respiratory tract irritation
	Category 3	-	Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 2	-	-
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 1	-	-
ethylbenzene	Category 2	-	-
benzene	Category 1	-	-
ethylene oxide	Category 1	-	nervous system

Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	ASPIRATION HAZARD - Category 1
1,2,4-trimethylbenzene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
mesitylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
benzene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure : Not available.

Potential acute health effects

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

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
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects 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

SECTION 11: Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Causes 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
n-butyl acetate	Acute LC50 185000 µg/l Marine water	Fish - Inland silverside - Menidia beryllina	96 hours
2-methylpropan-1-ol	Acute LC50 600 mg/l Marine water	Crustaceans - Brine shrimp - Artemia salina	48 hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	21 days
Isopropyl alcohol	Acute EC50 7550 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Harlequinfish, red rasbora - Rasbora heteromorpha	96 hours
Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde	EC50 15 mg/l Fresh water	Algae - Algae	72 hours
	Acute EC50 4600 mg/l	Daphnia - Daphnia	48 hours
	Acute LC50 1000000 mg/l	Fish - Danio rerio	96 hours
	Chronic NOEC 12 mg/l	Algae - Algae	72 hours
methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas - Adult	96 hours
	Acute LC50 4910 µg/l Marine water	Crustaceans - Scud - Elasmopus pecteniscrus - Adult	48 hours
1,2,4-trimethylbenzene	Acute LC50 7720 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Chronic NOEC 2.6 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	21 days
n-butyl methacrylate	EC50 3.82 mg/l	Crustaceans - Penaeus	48 hours

SECTION 12: Ecological information

mesitylene	Acute LC50 13400 µg/l Fresh water	monodon Fish - Fathead minnow - Pimephales promelas	96 hours
	Acute LC50 13000 µg/l Marine water	Crustaceans - Dungeness or edible crab - Cancer magister - Zoea	48 hours
2-hydroxyethyl acrylate	Acute LC50 12520 µg/l Fresh water	Fish - Goldfish - Carassius auratus	96 hours
	Chronic NOEC 0.4 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	21 days
ethylbenzene	Acute LC50 4800 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 13.3 mg/l Marine water	Crustaceans - Brine shrimp - Artemia sp. - Nauplii	48 hours
benzene	Acute LC50 13.9 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute EC50 1600000 µg/l Fresh water	Algae - Green algae - Selenastrum sp.	96 hours
acrylic acid	Acute EC50 9.23 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 33000 µg/l Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio	48 hours
	Acute LC50 5.28 ul/L Fresh water	Fish - Pink salmon - Oncorhynchus gorbuscha - Fry	96 hours
	Chronic EC10 >1360 mg/l Fresh water	Algae - Green algae - Desmodesmus subspicatus	96 hours
	Chronic NOEC 98 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	21 days
	Chronic NOEC 1.5 to 5.4 ul/L Marine water	Fish - Striped bass - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	4 weeks
	Acute EC50 0.13 mg/l Fresh water	Algae	72 hours
	Acute EC50 95 mg/l Fresh water	Daphnia	48 hours
ethylene oxide	Acute LC50 27 mg/l Fresh water	Fish	96 hours
	Acute NOEC 0.03 mg/l Fresh water	Algae	72 hours
	Chronic NOEC 3.8 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	21 days
	Acute LC50 490000 µg/l Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 137000 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 84000 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
xylene 2-hydroxyethyl acrylate acrylic acid	OECD 301 F	90 % - 28 days	-	-
	EU	78 % - Readily - 28 days	-	-
	OECD 302C	68 % - Readily - 14 days	-	-
ethylene oxide	Inherent Biodegradability: Modified MITI Test (II)			
	-	69 % - Readily - 20 days	-	-

Conclusion/Summary : Not available.

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde	-	-	Not readily
xylene	-	-	Readily
2-hydroxyethyl acrylate	-	-	Readily
acrylic acid	-	-	Readily
ethylene oxide	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Reaction mass of ethylbenzene and xylene	3.16	-	low
n-butyl acetate	2.3	-	low
2-methylpropan-1-ol	1	-	low
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	10 to 2500	high
Isopropyl alcohol	0.05	-	low
methyl methacrylate	1.38	-	low
1,2,4-trimethylbenzene	3.63	243	low
n-butyl methacrylate	2.99	-	low
xylene	3.12	8.1 to 25.9	low
mesitylene	3.42	161	low
2-hydroxyethyl acrylate	-0.17	-	low
ethylbenzene	3.6	-	low
benzene	2.13	11	low
acrylic acid	0.38	3.162	low
ethylene oxide	-0.3	-	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods**Product**

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

Hazardous waste : Yes.

SECTION 13: Disposal considerations

Waste catalogue

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances





Packaging

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

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	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

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

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

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

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK (GB)/REACH****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
benzene	UK Occupational Exposure Limits EH40 - WEL	benzene; benzol	Carc.	-
ethylene oxide	UK Occupational Exposure Limits EH40 - WEL	ethylene oxide; epoxyethane	Carc.	-

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

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

SECTION 16: Other information**Procedure used to derive the classification**

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H230	May react explosively even in the absence of air.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1A	CARCINOGENICITY - Category 1A
Carc. 1B	CARCINOGENICITY - Category 1B
Chem. Unst. Gas A	CHEMICALLY UNSTABLE GASES - Category A
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 1B	GERM CELL MUTAGENICITY - Category 1B
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2

SECTION 16: Other information

Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - 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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