

SAFETY DATA SHEET



Crestamould Essentials 4005PA

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

1.1 Product identifier

Product name : Crestamould Essentials 4005PA
UFI : RC74-80PF-500X-GX2C
Product code : C5090200
Product description : Not available.
Product type : Liquid.
Other means of identification : Not available.

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

Identified uses

Resins.

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

Scott Bader Co Ltd,
Wollaston.
Northants
NN297RL
United Kingdom
+44 (0)1933663100

e-mail address of person responsible for this SDS : SDS@scottbader.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : +44 1865 407333 (NCEC) 24h

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
Acute Tox. 4, H332
Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1, H317
Repr. 2, H361d
STOT SE 3, H335
STOT RE 1, H372 (hearing organs)
Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

SECTION 2: Hazards identification

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H226 - Flammable liquid and vapour.
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.
H361d - Suspected of damaging the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.
(hearing organs)
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

: Store in a well-ventilated place. Keep container tightly closed.

Disposal

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

Supplemental label elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: 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
styrene	REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5 Index: 601-026-00-0	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<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 STOT RE 2, H373 (inhalation) Asp. Tox. 1, H304	[1] [2]
bis-[4-(2,3-epoxipropoxy)phenyl] propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤0.3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
cobalt bis(2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.3	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1] [2]
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤0.3	Not classified.	[2]
2-butoxyethanol	EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤0.1	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤0.1	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
1,4-dihydroxybenzene	REACH #: 01-2119524016-51 EC: 204-617-8 CAS: 123-31-9 Index: 604-005-00-4	<0.1	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1] [2]

SECTION 3: Composition/information on ingredients

1,2,4-trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤0.1	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]
2,2' -oxybisethanol	REACH #: 01-2119457857-21 EC: 203-872-2 CAS: 111-46-6 Index: 603-140-00-6	≤0.1	Acute Tox. 4, H302	[1] [2]
(2-methoxymethylethoxy)propanol	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤0.1	Not classified.	[2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤0.1	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071	[1] [2]
Paraffin waxes and Hydrocarbon waxes	REACH #: 01-2119488076-30 EC: 232-315-6 CAS: 8002-74-2	≤0.1	Not classified.	[2]
2,6-di-tert-butyl-p-cresol	REACH #: 01-2119565113-46 EC: 204-881-4 CAS: 128-37-0	<0.1	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) 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.

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**

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

SECTION 4: First aid measures

- Inhalation** : 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. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. 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 or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container

SECTION 6: Accidental release measures

for disposal according to local regulations.

- 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

- Protective measures** :
- Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** :
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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**8.1 Control parameters****Occupational exposure limits**

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
styrene	EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 250 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 430 mg/m ³ . STEL 15 minutes: 1080 mg/m ³ .
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-, p- or mixed isomers] Absorbed through skin. STEL 15 minutes: 441 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m ³ . STEL 15 minutes: 100 ppm.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 552 mg/m ³ . STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m ³ .
cobalt bis(2-ethylhexanoate)	EH40/2005 WELs (United Kingdom (UK), 1/2020) [cobalt and cobalt compounds] Carc. Inhalation sensitiser. TWA 8 hours: 0.1 mg/m ³ (as Co).
propane-1,2-diol	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 474 mg/m ³ . Form: total vapour and particulates. TWA 8 hours: 150 ppm. Form: total vapour and particulates. TWA 8 hours: 10 mg/m ³ . Form: Particulate.
2-butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 123 mg/m ³ .
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 560 mg/m ³ . STEL 15 minutes: 150 ppm. TWA 8 hours: 375 mg/m ³ . TWA 8 hours: 100 ppm.
1,4-dihydroxybenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 0.5 mg/m ³ .
1,2,4-trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020) [trimethylbenzenes, all isomers or mixtures] TWA 8 hours: 25 ppm. TWA 8 hours: 125 mg/m ³ .
2,2' -oxybisethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 101 mg/m ³ . TWA 8 hours: 23 ppm.
(2-methoxymethylethoxy)propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. TWA 8 hours: 308 mg/m ³ . TWA 8 hours: 50 ppm.
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 548 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 274 mg/m ³ . STEL 15 minutes: 100 ppm.
maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020) Inhalation sensitiser. STEL 15 minutes: 3 mg/m ³ . TWA 8 hours: 1 mg/m ³ .
Paraffin waxes and Hydrocarbon waxes	EH40/2005 WELs (United Kingdom (UK), 1/2020)

SECTION 8: Exposure controls/personal protection

2,6-di-tert-butyl-p-cresol	STEL 15 minutes: 6 mg/m³. Form: Fume. TWA 8 hours: 2 mg/m³. Form: Fume. EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 10 mg/m³.
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Biological exposure indices

Product/ingredient name	Exposure indices
xylene	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.
2-butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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
styrene	DNEL - Workers - Short term - Inhalation 289 mg/m³ <u>Effects</u> : Systemic DNEL - Workers - Short term - Inhalation 306 mg/m³ <u>Effects</u> : Local DNEL - Workers - Long term - Dermal 406 mg/kg bw/day <u>Effects</u> : Systemic DNEL - Workers - Long term - Inhalation 85 mg/m³ <u>Effects</u> : Systemic DNEL - General population - Consumers - Short term - Inhalation 174.25 mg/m³ <u>Effects</u> : Systemic DNEL - General population - Consumers - Short term - Inhalation 182.75 mg/m³ <u>Effects</u> : Local DNEL - General population - Consumers - Long term - Dermal 343 mg/kg bw/day <u>Effects</u> : Systemic DNEL - General population - Consumers - Long term - Inhalation 10.2 mg/m³ <u>Effects</u> : Systemic

SECTION 8: Exposure controls/personal protection

DNEL - General population - Consumers - Long term - Oral
2.1 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Oral
7.7 µg/kg bw/day
Effects: Systemic

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

DNEL - General population - Long term - Inhalation
1 mg/m³
Effects: Systemic

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

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

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

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

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

DNEL - Workers - Short term - Inhalation
100 mg/m³
Effects: Systemic

DNEL - General population - Long term - Dermal
343 mg/kg bw/day
Effects: Systemic

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

DNEL - Workers - Short term - Inhalation
442 mg/m³
Effects: Systemic

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

DNEL - General population - Human via the environment - Short term - Inhalation
260 mg/m³
Effects: Systemic

DNEL - General population - Human via the environment - Long term - Dermal
125 mg/kg bw/day

xylene

SECTION 8: Exposure controls/personal protection

Effects: Systemic

DNEL - General population - Human via the environment - Long term - Oral
12.5 mg/kg bw/day
Effects: Systemic

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

DNEL - General population - Long term - Oral
5 mg/kg bw/day
Effects: Systemic

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

DNEL - General population - Long term - Inhalation
65.3 mg/m³
Effects: Systemic

DNEL - General population - Long term - Dermal
125 mg/kg bw/day
Effects: Systemic

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

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

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

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

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

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

DNEL - Workers - Short term - Inhalation
442 mg/m³
Effects: Systemic

DNEL - General population - Long term - Dermal
89.3 µg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Oral
0.5 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal

bis-[4-(2,3-epoxipropoxy)phenyl]propane

SECTION 8: Exposure controls/personal protection

	0.75 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 0.87 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 4.93 mg/m³ <u>Effects</u> : Systemic
ethylbenzene	DMEL - Workers - Long term - Inhalation 442 mg/m³ <u>Effects</u> : Local
	DMEL - Workers - Short term - Inhalation 884 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 1.6 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 15 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 77 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 180 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 293 mg/m³ <u>Effects</u> : Local
cobalt bis(2-ethylhexanoate)	DNEL - General population - Long term - Inhalation 37 µg/m³ <u>Effects</u> : Local
	DNEL - General population - Long term - Oral 175 µg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 235.1 µg/m³ <u>Effects</u> : Local
propane-1,2-diol	DNEL - General population - Consumers - Long term - Dermal 213 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Consumers - Long term - Inhalation 50 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Consumers - Long term - Oral 85 mg/kg bw/day <u>Effects</u> : Systemic

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	DNEL - General population - Consumers - Long term - Inhalation 10 mg/m ³ <u>Effects:</u> Local
	DNEL - General population - Long term - Inhalation 10 mg/m ³ <u>Effects:</u> Local
	DNEL - Workers - Long term - Inhalation 10 mg/m ³ <u>Effects:</u> Local
	DNEL - General population - Long term - Inhalation 50 mg/m ³ <u>Effects:</u> Systemic
	DNEL - Workers - Long term - Inhalation 168 mg/m ³ <u>Effects:</u> Systemic
2-butoxyethanol	DNEL - General population - Long term - Oral 6.3 mg/kg bw/day <u>Effects:</u> Systemic
	DNEL - General population - Short term - Oral 26.7 mg/kg bw/day <u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation 59 mg/m ³ <u>Effects:</u> Systemic
	DNEL - Workers - Long term - Inhalation 98 mg/m ³ <u>Effects:</u> Systemic
	DNEL - General population - Short term - Inhalation 147 mg/m ³ <u>Effects:</u> Local
	DNEL - Workers - Short term - Inhalation 246 mg/m ³ <u>Effects:</u> Local
	DNEL - General population - Short term - Inhalation 426 mg/m ³ <u>Effects:</u> Systemic
	DNEL - Workers - Short term - Inhalation 1091 mg/m ³ <u>Effects:</u> Systemic
1-methoxy-2-propanol	DNEL - General population - Long term - Oral 33 mg/kg bw/day <u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation 43.9 mg/m ³ <u>Effects:</u> Systemic
	DNEL - General population - Long term - Dermal 78 mg/kg bw/day <u>Effects:</u> Systemic

1,4-dihydroxybenzene	DNEL - Workers - Long term - Dermal 183 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 369 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 553.5 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Short term - Inhalation 553.5 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Human via the environment - Long term - Dermal 64 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Human via the environment - Long term - Inhalation 1.74 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Human via the environment - Long term - Inhalation 0.5 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Long term - Oral 0.6 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 1.05 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 1.66 mg/kg bw/day <u>Effects</u> : Systemic
1,2,4-trimethylbenzene	DNEL - Workers - Long term - Inhalation 2.1 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 3.33 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 15 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 29.4 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Short term - Inhalation 29.4 mg/m³ <u>Effects</u> : Systemic

SECTION 8: Exposure controls/personal protection

	DNEL - Workers - Short term - Inhalation 100 mg/m³ <u>Effects:</u> Local
	DNEL - Workers - Short term - Inhalation 100 mg/m³ <u>Effects:</u> Systemic
	DNEL - Workers - Long term - Dermal 16171 mg/kg bw/day <u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation 29.4 mg/m³ <u>Effects:</u> Local
	DNEL - General population - Long term - Inhalation 29.4 mg/m³ <u>Effects:</u> Systemic
	DNEL - Workers - Long term - Inhalation 100 mg/m³ <u>Effects:</u> Local
	DNEL - Workers - Long term - Inhalation 100 mg/m³ <u>Effects:</u> Systemic
	DNEL - General population - Long term - Dermal 9512 mg/kg bw/day <u>Effects:</u> Systemic
2,2' -oxybisethanol	DNEL - Workers - Long term - Inhalation 44 mg/m³ <u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation 12 mg/m³ <u>Effects:</u> Local
	DNEL - General population - Long term - Inhalation 12 mg/m³ <u>Effects:</u> Systemic
	DNEL - General population - Long term - Dermal 21 mg/kg bw/day <u>Effects:</u> Systemic
	DNEL - Workers - Long term - Dermal 43 mg/kg bw/day <u>Effects:</u> Systemic
	DNEL - Workers - Long term - Inhalation 60 mg/m³ <u>Effects:</u> Local
(2-methoxymethylethoxy)propanol	DNEL - General population - Long term - Oral 36 mg/kg bw/day <u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation 37.2 mg/m³ <u>Effects:</u> Systemic

SECTION 8: Exposure controls/personal protection

	DNEL - General population - Long term - Dermal 121 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Dermal 283 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Inhalation 308 mg/m³ <u>Effects</u>: Systemic
2-methoxy-1-methylethyl acetate	DNEL - General population - Long term - Inhalation 33 mg/m³ <u>Effects</u>: Local DNEL - General population - Long term - Inhalation 33 mg/m³ <u>Effects</u>: Systemic DNEL - General population - Long term - Oral 36 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Inhalation 275 mg/m³ <u>Effects</u>: Systemic DNEL - General population - Long term - Dermal 320 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Short term - Inhalation 550 mg/m³ <u>Effects</u>: Local DNEL - Workers - Long term - Dermal 796 mg/kg bw/day <u>Effects</u>: Systemic
maleic anhydride	DNEL - Workers - Short term - Dermal 0.04 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Short term - Dermal 0.04 mg/cm² <u>Effects</u>: Local DNEL - Workers - Long term - Dermal 0.04 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Dermal 0.04 mg/cm² <u>Effects</u>: Local DNEL - Workers - Long term - Inhalation 0.4 mg/m³ <u>Effects</u>: Systemic DNEL - Workers - Long term - Inhalation 0.4 mg/m³ <u>Effects</u>: Local

SECTION 8: Exposure controls/personal protection

	DNEL - General population - Long term - Inhalation 0.05 mg/m³ <u>Effects</u>: Systemic DNEL - General population - Long term - Oral 0.06 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Inhalation 0.08 mg/m³ <u>Effects</u>: Local DNEL - Workers - Long term - Inhalation 0.081 mg/m³ <u>Effects</u>: Local DNEL - Workers - Long term - Inhalation 0.081 mg/m³ <u>Effects</u>: Systemic DNEL - General population - Short term - Oral 0.1 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Short term - Dermal 0.1 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Dermal 0.1 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Short term - Dermal 0.2 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Dermal 0.2 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Short term - Inhalation 0.2 mg/m³ <u>Effects</u>: Local DNEL - Workers - Short term - Inhalation 0.2 mg/m³ <u>Effects</u>: Systemic DNEL - Workers - Long term - Inhalation 3.5 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Oral 0.25 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Dermal 0.25 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Inhalation 0.435 mg/m³ <u>Effects</u>: Systemic
2,6-di-tert-butyl-p-cresol	

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SECTION 8: Exposure controls/personal protection

DNEL - Workers - Long term - Dermal

0.5 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

1.76 mg/m³

Effects: Systemic

PNECs

Product/ingredient name

styrene

Result

Fresh water

0.028 mg/l

Marine water

0.0028 mg/l

Fresh water sediment

0.614 mg/kg dwt

Marine water sediment

0.0614 mg/kg dwt

Soil

0.2 mg/kg dwt

Sewage Treatment Plant

5 mg/l

xylene

Fresh water

0.327 mg/l

Marine water

0.327 mg/l

Fresh water sediment

12.46 mg/kg

Marine water sediment

12.46 mg/kg

Soil

2.31 mg/kg

Sewage Treatment Plant

6.58 mg/l

propane-1,2-diol

Fresh water

260 mg/l

Marine water

26 mg/l

Sewage Treatment Plant

20000 mg/l

Fresh water sediment

572 mg/kg

Marine water sediment

57.2 mg/kg

Soil

50 mg/kg

SECTION 8: Exposure controls/personal protection

1,4-dihydroxybenzene	Fresh water 0.114 µg/l
	Marine water 0.0114 µg/l
	Fresh water sediment 0.00098 mg/kg
	Marine water sediment 0.000097 mg/kg
	Soil 0.000129 mg/kg
	Sewage Treatment Plant 0.71 mg/l
maleic anhydride	Fresh water 0.04281 mg/l
	Marine water 0.004281 mg/l
	Fresh water sediment 0.334 mg/kg dwt
	Marine water sediment 0.0334 mg/kg dwt
	Soil 0.0415 mg/kg dwt
	Sewage Treatment Plant 44.6 mg/l
2,6-di-tert-butyl-p-cresol	Fresh water 0.199 µg/l
	Marine water 0.0199 µg/l
	Sediment 99.6 µg/l
	Soil 47.69 µg/l

8.2 Exposure controls

- Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- 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.

SECTION 8: Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to British Standard BS EN 1149 for further information on material and design requirements and test methods.
- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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** : White.
- Odour** : Solvent
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flammability (solid, gas)** : Not available.
- Upper/lower flammability or explosive limits** : Not available.
- Flash point** : Closed cup: 32°C (89.6°F)
- Auto-ignition temperature** :

Ingredient name	°C	°F	Method
styrene	490	914	

- Decomposition temperature** : Not available.
- pH** : Not applicable.

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SECTION 9: Physical and chemical properties

Viscosity

: Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available.

Kinematic (40°C): >40 mm²/s

Solubility in water

: Not available.

Partition coefficient: n-octanol/ water

: Not applicable.

Vapour pressure

:

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
styrene	6.4	0.85				
aluminium hydroxide	<0.075	<0.01				

Evaporation rate

: Not available.

Relative density

: 1.1 to 1.2

Vapour density

: Not available.

Explosive properties

: Not available.

Oxidising properties

: Not available.

Particle characteristics

Median particle size

: Not applicable.

Not available.

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	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute toxicity	
Product/ingredient name	Result
styrene	Rat - Oral - LD50 2650 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) Liver - Other changes Rat - Dermal - LD50 >2000 mg/kg Rat - Inhalation - LC50 Vapour 11800 mg/m³ [4 hours]

SECTION 11: Toxicological information**Rat - Inhalation - LC50 Gas.**

2770 ppm [4 hours]

xylene

Rat - Oral - LD50

4300 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Rabbit - Dermal - LD50

20 g/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Gastrointestinal - Hypermotility, diarrhea Gross Metabolite Changes - Weight loss or decreased weight gain

ethylbenzene

Rat - Oral - LD50

3500 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes**Rabbit - Dermal - LD50**

>5000 mg/kg

cobalt bis(2-ethylhexanoate)

Rabbit - Dermal - LD50

>5 g/kg

Toxic effects: Skin After topical exposure - Primary irritation**Rat - Oral - LD50**

>2000 mg/kg

propane-1,2-diol

Rat - Oral - LD50

20 g/kg

Rabbit - Dermal - LD50

20800 mg/kg

2-butoxyethanol

Rat - Oral - LD50

917 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes Blood - Other hemolysis with or without anemia

1-methoxy-2-propanol

Rabbit - Dermal - LD50

13 g/kg

Rat - Oral - LD50

6600 mg/kg

Toxic effects: Brain and Coverings - Other degenerative changes Behavioral - General anesthetic Lung, Thorax, or Respiration - Dyspnea

1,4-dihydroxybenzene

Rat - Oral - LD50

375 mg/kg

1,2,4-trimethylbenzene

Rat - Oral - LD50

5 g/kg

Rat - Inhalation - LC50 Vapour18000 mg/m³ [4 hours]

2,2' -oxybisethanol

Rabbit - Dermal - LD50

11890 mg/kg

Rat - Oral - LD50

12000 mg/kg

SECTION 11: Toxicological information

Toxic effects: Brain and Coverings - Other degenerative changes
Liver - Other changes
Kidney, Ureter, and Bladder - Other changes

2-methoxy-1-methylethyl acetate

Rat - Oral - LD50

8532 mg/kg

Rabbit - Dermal - LD50

>5 g/kg

maleic anhydride

Rat - Oral - LD50

400 mg/kg

Rabbit - Dermal - LD50

2620 mg/kg

Paraffin waxes and Hydrocarbon waxes

Rat - Oral - LD50

>5000 mg/kg

Rat - Dermal - LD50

>2000 mg/kg

2,6-di-tert-butyl-p-cresol

Rat - Oral - LD50

890 mg/kg

Conclusion/Summary [Product] : Not available.**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)
Crestamould Essentials 4005PA	N/A	N/A	9087.1	38.7	N/A
styrene	2650	N/A	2770	11.8	N/A
xylene	4300	1100	N/A	11	N/A
bis-[4-(2,3-epoxipropoxy)phenyl]propane	N/A	20000	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
propane-1,2-diol	20000	20800	N/A	N/A	N/A
2-butoxyethanol	917	N/A	N/A	11	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A
1,4-dihydroxybenzene	375	N/A	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	N/A
2,2' -oxybisethanol	500	11890	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
maleic anhydride	400	2620	N/A	N/A	N/A

Skin corrosion/irritation**Product/ingredient name**

styrene

Result**Rabbit - Skin - Mild irritant**Amount/concentration applied: 500 mg**Rabbit - Skin - Moderate irritant**Amount/concentration applied: 100 %

xylene

Rat - Skin - Mild irritantDuration of treatment/exposure: 8 hoursAmount/concentration applied: 60 uL**Rabbit - Skin - Moderate irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 500 mg

SECTION 11: Toxicological information

	Rabbit - Skin - Moderate irritant <u>Amount/concentration applied:</u> 100 %
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg
2-butoxyethanol	Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg
1-methoxy-2-propanol	Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg
1,4-dihydroxybenzene	Human - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 2 %
	Human - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 48 hours <u>Amount/concentration applied:</u> 4 %
	Mouse - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 48 hours <u>Amount/concentration applied:</u> 10 %
2,2' -oxybisethanol	Human - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 72 hours <u>Amount/concentration applied:</u> 112 mg l
	Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg
2,6-di-tert-butyl-p-cresol	Human - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 48 hours <u>Amount/concentration applied:</u> 500 mg
	Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 48 hours <u>Amount/concentration applied:</u> 500 mg

Conclusion/Summary [Product] : Not available.**Serious eye damage/eye irritation****Product/ingredient name**

styrene

Result**Human - Eyes - Mild irritant**
Amount/concentration applied: 50 ppm**Rabbit - Eyes - Moderate irritant**
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 100 mg**Rabbit - Eyes - Severe irritant**
Amount/concentration applied: 100 mg

xylene

Rabbit - Eyes - Mild irritant
Amount/concentration applied: 87 mg**Rabbit - Eyes - Severe irritant**
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 5 mg

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Rabbit - Eyes - Severe irritant
Duration of treatment/exposure: 24 hours

SECTION 11: Toxicological information

	Amount/concentration applied: 2 mg
2-butoxyethanol	Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg
2,2' -oxybisethanol	Rabbit - Eyes - Mild irritant Amount/concentration applied: 50 mg
2,6-di-tert-butyl-p-cresol	Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name	Result
cobalt bis(2-ethylhexanoate)	Mouse - skin OECD 429 Result: Sensitising
1,4-dihydroxybenzene	Mouse - skin Result: Sensitising Guinea pig - skin Result: Not sensitizing

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Product/ingredient name	Result
1,4-dihydroxybenzene	In vivo - Bacteria Result: Negative In vivo - Mammalian-Animal Result: Positive

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
styrene	STOT SE 3, H335 (Respiratory tract irritation)
xylene	STOT SE 3, H335 (Respiratory tract irritation)
1-methoxy-2-propanol	STOT SE 3, H336 (Narcotic effects)
1,2,4-trimethylbenzene	STOT SE 3, H335 (Respiratory tract irritation)
2-methoxy-1-methylethyl acetate	STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
styrene	STOT RE 1, H372 (hearing organs)
xylene	STOT RE 2, H373 (inhalation)
ethylbenzene	STOT RE 2, H373 (hearing organs)
maleic anhydride	STOT RE 1, H372 (respiratory system) (inhalation)

Aspiration hazard

Product/ingredient name	Result
styrene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
1,2,4-trimethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations

SECTION 11: Toxicological information

Ingestion : Adverse symptoms may include the following:
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Short term exposure**

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects**Product/ingredient name**

styrene

Result**Chronic - Rat - Dermal - NOAEL**

615 mg/kg

Chronic - Rat - Inhalation - NOAEL

20 ppm [8 hours]

1,4-dihydroxybenzene

Sub-chronic - Rat - Oral - NOAEL

20 mg/kg [90 days]

Sub-chronic - Rat - Dermal - NOAEL

>73.9 mg/kg [90 days]

Paraffin waxes and Hydrocarbon waxes

Sub-chronic - Rat - Oral - NOAEL

1.5 mg/kg

Conclusion/Summary [Product] : Not available.

General : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : Suspected of damaging the unborn child.

Other information

Not available.

SECTION 12: Ecological information**12.1 Toxicity****Product/ingredient name**

styrene

Result**Acute - LC50 - Fresh water**Fish - Fathead minnow - *Pimephales promelas*Age: 30 days; Size: 19 mm; Weight: 0.101 g

4020 µg/l [96 hours]

Effect: Mortality**Acute - EC50 - Fresh water**Daphnia - Water flea - *Daphnia magna*Age: ≤24 hours

4700 µg/l [48 hours]

Effect: Mortality**Chronic - NOEC**

SECTION 12: Ecological information

	Daphnia 1.01 mg/l [21 days] Acute - EC50 - Fresh water Algae - Green algae - <i>Raphidocelis subcapitata</i> 720 µg/l [96 hours] <u>Effect</u>: Population Chronic - NOEC - Fresh water Algae - Green algae - <i>Raphidocelis subcapitata</i> 63 µg/l [96 hours] <u>Effect</u>: Population
xylene	Acute - LC50 - Marine water Crustaceans - Daggerblade grass shrimp - <i>Palaemon pugio</i> 8500 µg/l [48 hours] <u>Effect</u>: Mortality Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: 31 days; <u>Size</u>: 18.4 mm; <u>Weight</u>: 0.077 g 13.4 mg/l [96 hours] <u>Effect</u>: Mortality
ethylbenzene	Acute - LC50 Fish 4.2 mg/l [96 hours] Acute - EC50 - Marine water Crustaceans - Brine shrimp - <i>Artemia sp.</i> - Nauplii <u>Age</u>: 2 to 3 13.3 mg/l [48 hours] <u>Effect</u>: Intoxication Acute - EC50 - Fresh water Algae - Green algae - <i>Raphidocelis subcapitata</i> 3600 µg/l [96 hours] <u>Effect</u>: Population
propane-1,2-diol	Acute - LC50 - Fresh water Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> <u>Age</u>: <24 hours 1020 mg/l [48 hours] <u>Effect</u>: Mortality Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: ≤7 days 710 mg/l [96 hours] <u>Effect</u>: Mortality Acute - EC50 OECD [Alga, Growth Inhibition Test] Algae 24200 mg/l [72 hours] Chronic - NOEC Daphnia 13020 mg/l [7 days]
2-butoxyethanol	Acute - LC50 - Marine water Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> 800 mg/l [48 hours]

SECTION 12: Ecological information

	<u>Effect</u>: Mortality
	Acute - LC50 - Marine water Fish - Inland silverside - <i>Menidia beryllina</i> 1250 ppm [96 hours] <u>Effect</u>: Mortality
1,4-dihydroxybenzene	Acute - EC50 Daphnia 0.134 mg/l [48 hours] Chronic - NOEC Daphnia 0.0057 mg/l [21 days] Chronic - NOEC Aquatic plants 0.019 mg/l [72 hours] Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> - Larvae <u>Age</u>: <24 hours 0.06 mg/l [96 hours] <u>Effect</u>: Mortality Acute - IC50 - Fresh water Algae - Green algae - <i>Scenedesmus quadricauda</i> 0.25 mg/l [3 days] <u>Effect</u>: Population
1,2,4-trimethylbenzene	Acute - LC50 - Marine water Crustaceans - Scud - <i>Elasmopus pecteniscus</i> - Adult 4910 µg/l [48 hours] <u>Effect</u>: Mortality Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: 34 days 7720 µg/l [96 hours] <u>Effect</u>: Mortality
2,2' -oxybisethanol	Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: 34 days; <u>Size</u>: 19.1 mm; <u>Weight</u>: 0.102 g 75.2 g/l [96 hours] <u>Effect</u>: Mortality
2-methoxy-1-methylethyl acetate	Acute - EC50 Daphnia 373 mg/l [48 hours] Acute - LC50 Fish >100 mg/l [96 hours]
maleic anhydride	Acute - LC50 - Fresh water Fish - Western mosquitofish - <i>Gambusia affinis</i> - Adult 230 ppm [96 hours] <u>Effect</u>: Mortality
2,6-di-tert-butyl-p-cresol	Chronic - NOEC - Fresh water OECD Algae - Green algae - <i>Raphidocelis subcapitata</i>

SECTION 12: Ecological information

1 mg/l [72 hours]

Effect: Population**Acute - EC50 - Fresh water**

OECD

Daphnia - Water flea - *Daphnia magna*

0.84 mg/l [48 hours]

Effect: Intoxication**Chronic - NOEC - Fresh water**

OECD

Daphnia - Water flea - *Daphnia magna*

0.069 mg/l [21 days]

Effect: Reproduction**Acute - LC50 - Fresh water**

OECD

Fish - Medaka, high-eyes - *Oryzias latipes*

1.1 mg/l [96 hours]

Effect: Mortality**Conclusion/Summary [Product]** : Not available.**12.2 Persistence and degradability****Product/ingredient name****Result**

propane-1,2-diol

OECD [Ready Biodegradability - Manometric Respirometry Test]

81.07% [28 days]

OECD [Biodegradability in Seawater]

90.6% [64 days]

1,4-dihydroxybenzene

70% [14 days] - Readily

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
styrene	-	-	Readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily
cobalt bis(2-ethylhexanoate)	-	-	Not readily
propane-1,2-diol	-	-	Readily
1,4-dihydroxybenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
styrene	2.96	13.49	Low
xylene	3.12	8.1 to 25.9	Low
ethylbenzene	3.6	-	Low
cobalt bis(2-ethylhexanoate)	-	15600	High
propane-1,2-diol	-1.07	-	Low

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2-butoxyethanol	0.81	-	Low
1-methoxy-2-propanol	<1	-	Low
1,4-dihydroxybenzene	0.59	3.162	Low
1,2,4-trimethylbenzene	3.63	243	Low
2,2' -oxybisethanol	-1.98	100	Low
(2-methoxymethylethoxy) propanol	0.004	-	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
maleic anhydride	-2.78	-	Low
2,6-di-tert-butyl-p-cresol	5.1	330 to 1800 [OECD 305 C]	High

12.4 Mobility in soil

Soil/water partition coefficient : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
styrene	No	N/A	No	Yes	No	N/A	No
xylene	No	N/A	No	Yes	No	N/A	No
bis-[4-(2,3-epoxipropoxy) phenyl]propane	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
cobalt bis(2-ethylhexanoate)	N/A	N/A	Yes	Yes	N/A	N/A	Yes
propane-1,2-diol	No	N/A	N/A	No	N/A	N/A	N/A
2-butoxyethanol	No	N/A	N/A	No	N/A	N/A	N/A
1-methoxy-2-propanol	No	N/A	N/A	No	N/A	N/A	N/A
1,4-dihydroxybenzene	No	N/A	No	Yes	No	N/A	No
1,2,4-trimethylbenzene	No	N/A	No	No	No	N/A	No
2,2' -oxybisethanol	No	N/A	No	No	No	N/A	No
(2-methoxymethylethoxy) propanol	No	N/A	N/A	No	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
maleic anhydride	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Paraffin waxes and Hydrocarbon waxes	No	No	No	No	No	No	No
2,6-di-tert-butyl-p-cresol	No	N/A	No	No	No	N/A	No

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**

SECTION 13: Disposal considerations

- 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** : The classification of the product may meet the criteria for a hazardous waste.
- 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.
- 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	UN1866	UN1866	UN1866	UN1866
14.2 UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION	Resin solution
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** : **Hazard identification number** 30
Limited quantity 5 L
Tunnel code (D/E)
- ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
- IMDG** : **Emergency schedules** F-E, _S-E_
Special provisions 223, 955
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.
Special provisions A3

- 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.

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SECTION 14: Transport information

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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
Crestamould Essentials 4005PA	≥90	3

Labelling : 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
cobalt bis(2-ethylhexanoate)	EH40/2005 WELs	cobalt and cobalt compounds	Carc	-

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

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

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

SECTION 15: Regulatory information

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

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

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 1, H372 (hearing organs)	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H361d	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.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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SECTION 16: Other information

H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications

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