

## SAFETY DATA SHEET



## Barrier 80 XT Comp B

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

## 1.1 Product identifier

|                               |                        |
|-------------------------------|------------------------|
| Product name                  | : Barrier 80 XT Comp B |
| Product code                  | : 54963                |
| Product description           | : Hardener.            |
| Product type                  | : Liquid.              |
| Other means of identification | : Not available.       |

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

- Use in coatings - Industrial use  
Use in coatings - Professional use

## 1.3 Details of the supplier of the safety data sheet

Jotun Boya Sanayi ve Ticaret A.Ş.  
Maslak Mahallesi, Yelkovan Sokak  
Maslak Square Sitesi No:2  
İç Kapı No: 121  
Sarıyer / İstanbul

Date of previous issue : No previous validation

## 1.4 Emergency telephone number

National Poison Information Center

- +90 224 442 82 93 Uludağ Üniversitesi Zehir Danışma Merkezi ([www.uludag.edu.tr/uludag/zehir.html](http://www.uludag.edu.tr/uludag/zehir.html))  
a. ACİL DURUM TELEFONU: Zehirlenme durumlarında gerektiğinde ulusal zehir merkezinin (UZEM) 114 nolu telefonunu arayınız.  
b. ACİL İLK YARDIM MERKEZİ:112  
c. İTFAİYE:110

## SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to regulation SEA: RG.-10/12/2020-31330

Flam. Liq. 3, H226  
Acute Tox. 4, H302  
Skin Corr. 1B, H314  
Eye Dam. 1, H318  
Skin Sens. 1, H317  
STOT SE 3, H335  
STOT RE 2, H373 (hearing organs)  
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation SEA: RG.-10/12/2020-31330.

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.

## SECTION 2: Hazards identification

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

: Danger.

#### Hazard statements

: H226 - Flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H335 - May cause respiratory irritation.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
(hearing organs)  
H411 - Toxic to aquatic life with long lasting effects.

### Precautionary statements

#### General

: Not applicable.

#### Prevention

: P280 - Wear protective gloves, protective clothing and 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.

#### Response

: P391 - Collect spillage.  
P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.  
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.  
P363 - Wash contaminated clothing before reuse.  
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.  
P403 + P235 - Keep cool.

#### Disposal

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

#### Hazardous ingredients

: xylene  
aminepoxyadduct  
ethylbenzene  
benzyl alcohol  
3-aminomethyl-3,5,5-trimethylcyclohexylamine

#### Supplemental label elements

: Not applicable.

#### Annex 17 - 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.

SECTION 2: Hazards identification

2.3 Other hazards

Product meets the criteria :  
for PBT or vPvB

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

Other hazards which do : None known.  
not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name                          | Identifiers                                               | %    | SEA: RG.-10/12/2020-31330                                                                                                                                                      | Type    |
|--------------------------------------------------|-----------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| xylene                                           | EC: 215-535-7<br>CAS: 1330-20-7                           | ≤39  | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | [1] [2] |
| aminepoxyadduct                                  | CAS:<br>1075254-00-0                                      | ≤50  | Acute Tox. 4, H302<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                                                                                        | [1]     |
| ethylbenzene                                     | EC: 202-849-4<br>CAS: 100-41-4<br>Index:<br>601-023-00-4  | ≤13  | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412                                                   | [1] [2] |
| benzyl alcohol                                   | EC: 202-859-9<br>CAS: 100-51-6<br>Index:<br>603-057-00-5  | ≤25  | Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317                                                                                                                | [1]     |
| 3-aminomethyl-<br>3,5,5-trimethylcyclohexylamine | EC: 220-666-8<br>CAS: 2855-13-2<br>Index:<br>612-067-00-9 | ≤10  | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317                                                                                           | [1]     |
| 2-methylpentane-1,5-diamine                      | EC: 239-556-6<br>CAS: 15520-10-2                          | ≤1.7 | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335                                                   | [1]     |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol        | EC: 202-013-9<br>CAS: 90-72-2                             | ≤3   | Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br><br>See Section 16 for the full text of the H statements declared above.                                      | [1]     |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs 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** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed.

#### Over-exposure signs/symptoms

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

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

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, 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** : 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 toxic 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 thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen 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 European standard 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. Do not breathe 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. Collect spillage.

### 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. 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.

Liquid paint and washing water with paint residues must not be emptied into drains or watercourses. It must be delivered to an approved local environmental protection station.

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.

See Technical Data Sheet / packaging for further information.

Regulation on the prevention of major industrial accidents and reduction of their effects - Reporting thresholds

| Danger criteria |                                 |                         |
|-----------------|---------------------------------|-------------------------|
| Category        | Notification and MAPP threshold | Safety report threshold |
| P5c             | 5000 tonnes                     | 50000 tonnes            |
| E2              | 200 tonnes                      | 500 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

| Product/ingredient name | Exposure limit values                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xylene                  | <b>TR ISGGM OEL (Turkey, 10/2023) [Ksilen]</b> Absorbed through skin.<br>TWA 8 hours: 221 mg/m³.<br>TWA 8 hours: 50 ppm.<br>STEL 15 minutes: 442 mg/m³.<br>STEL 15 minutes: 100 ppm. |
| ethylbenzene            | <b>TR ISGGM OEL (Turkey, 10/2023)</b> Absorbed through skin.<br>TWA 8 hours: 442 mg/m³.<br>TWA 8 hours: 100 ppm.<br>STEL 15 minutes: 884 mg/m³.<br>STEL 15 minutes: 200 ppm.         |

Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xylene                  | <b>DNEL - General population - Long term - Oral</b><br>5 mg/kg bw/day<br><u>Effects</u> : Systemic<br><br><b>DNEL - General population - Long term - Inhalation</b><br>65.3 mg/m³<br><u>Effects</u> : Local<br><br><b>DNEL - General population - Long term - Inhalation</b><br>65.3 mg/m³<br><u>Effects</u> : Systemic<br><br><b>DNEL - General population - Long term - Dermal</b><br>125 mg/kg bw/day<br><u>Effects</u> : Systemic<br><br><b>DNEL - Workers - Long term - Dermal</b><br>212 mg/kg bw/day<br><u>Effects</u> : Systemic<br><br><b>DNEL - Workers - Long term - Inhalation</b><br>221 mg/m³<br><u>Effects</u> : Local<br><br><b>DNEL - Workers - Long term - Inhalation</b><br>221 mg/m³<br><u>Effects</u> : Systemic<br><br><b>DNEL - General population - Short term - Inhalation</b><br>260 mg/m³<br><u>Effects</u> : Local |



SECTION 8: Exposure controls/personal protection

|                |                                                                                                                  |
|----------------|------------------------------------------------------------------------------------------------------------------|
| ethylbenzene   | <b>DNEL - General population - Short term - Inhalation</b><br>260 mg/m <sup>3</sup><br><u>Effects</u> : Systemic |
|                | <b>DNEL - Workers - Short term - Inhalation</b><br>442 mg/m <sup>3</sup><br><u>Effects</u> : Local               |
|                | <b>DNEL - Workers - Short term - Inhalation</b><br>442 mg/m <sup>3</sup><br><u>Effects</u> : Systemic            |
|                | <b>DMEL - Workers - Long term - Inhalation</b><br>442 mg/m <sup>3</sup><br><u>Effects</u> : Local                |
|                | <b>DMEL - Workers - Short term - Inhalation</b><br>884 mg/m <sup>3</sup><br><u>Effects</u> : Systemic            |
|                | <b>DNEL - General population - Long term - Oral</b><br>1.6 mg/kg bw/day<br><u>Effects</u> : Systemic             |
|                | <b>DNEL - General population - Long term - Inhalation</b><br>15 mg/m <sup>3</sup><br><u>Effects</u> : Systemic   |
|                | <b>DNEL - Workers - Long term - Inhalation</b><br>77 mg/m <sup>3</sup><br><u>Effects</u> : Systemic              |
|                | <b>DNEL - Workers - Long term - Dermal</b><br>180 mg/kg bw/day<br><u>Effects</u> : Systemic                      |
|                | <b>DNEL - Workers - Short term - Inhalation</b><br>293 mg/m <sup>3</sup><br><u>Effects</u> : Local               |
| benzyl alcohol | <b>DNEL - General population - Long term - Oral</b><br>4 mg/kg bw/day<br><u>Effects</u> : Systemic               |
|                | <b>DNEL - General population - Long term - Dermal</b><br>4 mg/kg bw/day<br><u>Effects</u> : Systemic             |
|                | <b>DNEL - General population - Long term - Inhalation</b><br>5.4 mg/m <sup>3</sup><br><u>Effects</u> : Systemic  |
|                | <b>DNEL - Workers - Long term - Dermal</b><br>8 mg/kg bw/day<br><u>Effects</u> : Systemic                        |
|                | <b>DNEL - General population - Short term - Oral</b><br>20 mg/kg bw/day<br><u>Effects</u> : Systemic             |
|                | <b>DNEL - General population - Short term - Dermal</b><br>20 mg/kg bw/day<br><u>Effects</u> : Systemic           |



**SECTION 8: Exposure controls/personal protection****DNEL - Workers - Long term - Inhalation**22 mg/m<sup>3</sup>Effects: Systemic**DNEL - General population - Short term - Inhalation**27 mg/m<sup>3</sup>Effects: Systemic**DNEL - Workers - Short term - Dermal**

40 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Short term - Inhalation**110 mg/m<sup>3</sup>Effects: Systemic3-aminomethyl-  
3,5,5-trimethylcyclohexylamine**DNEL - General population - Consumers - Long term - Oral**

0.526 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Short term - Inhalation**0.073 mg/m<sup>3</sup>Effects: Local**DNEL - Workers - Long term - Inhalation**0.073 mg/m<sup>3</sup>Effects: Local**DNEL - General population - Long term - Oral**

0.3 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Oral**

0.3 mg/kg bw/day

Effects: Systemic

2-Methylpentane-1,5-diamine

**DNEL - General population - Long term - Inhalation**0.125 mg/m<sup>3</sup>Effects: Local**DNEL - General population - Short term - Inhalation**0.25 mg/m<sup>3</sup>Effects: Local**DNEL - Workers - Long term - Inhalation**0.25 mg/m<sup>3</sup>Effects: Local**DNEL - Workers - Short term - Inhalation**0.5 mg/m<sup>3</sup>Effects: Local**DNEL - General population - Long term - Oral**

0.25 mg/kg bw/day

Effects: Systemic

2,4,6-tris(dimethylaminomethyl)phenol

**DNEL - Workers - Long term - Dermal**

0.2 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Inhalation**0.31 mg/m<sup>3</sup>Effects: Systemic

SECTION 8: Exposure controls/personal protection

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

**DNEL - General population - Short term - Dermal**  
0.075 mg/kg bw/day  
Effects: Systemic

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

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

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

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

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

**DNEL - Workers - Short term - Dermal**  
0.6 mg/kg bw/day  
Effects: Systemic

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

PNECs

**Product/ingredient name**

xylene

**Result**

**Fresh water**  
0.327 mg/l

**Marine**  
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 dwt

ethylbenzene

**Fresh water**  
0.1 mg/l

**Marine**  
0.01 mg/l

**Sewage Treatment Plant**

SECTION 8: Exposure controls/personal protection

|                                                  |                               |
|--------------------------------------------------|-------------------------------|
|                                                  | 9.6 mg/l                      |
|                                                  | <b>Fresh water sediment</b>   |
|                                                  | 13.7 mg/kg dwt                |
|                                                  | <b>Soil</b>                   |
|                                                  | 2.68 mg/kg dwt                |
|                                                  | <b>Secondary Poisoning</b>    |
|                                                  | 20 mg/kg                      |
| benzyl alcohol                                   | <b>Fresh water</b>            |
|                                                  | 1 mg/l                        |
|                                                  | <b>Marine</b>                 |
|                                                  | 0.1 mg/l                      |
|                                                  | <b>Sewage Treatment Plant</b> |
|                                                  | 39 mg/l                       |
|                                                  | <b>Fresh water sediment</b>   |
|                                                  | 5.27 mg/kg dwt                |
|                                                  | <b>Marine water sediment</b>  |
|                                                  | 0.527 mg/kg dwt               |
|                                                  | <b>Soil</b>                   |
|                                                  | 0.456 mg/kg dwt               |
| 3-aminomethyl-<br>3,5,5-trimethylcyclohexylamine | <b>Fresh water</b>            |
|                                                  | 0.06 mg/l                     |
|                                                  | <b>Marine</b>                 |
|                                                  | 0.006 mg/l                    |
|                                                  | <b>Sewage Treatment Plant</b> |
|                                                  | 3.18 mg/l                     |
|                                                  | <b>Fresh water sediment</b>   |
|                                                  | 5.784 mg/kg dwt               |
|                                                  | <b>Marine water sediment</b>  |
|                                                  | 0.578 mg/kg dwt               |
|                                                  | <b>Soil</b>                   |
|                                                  | 1.121 mg/kg dwt               |
| 2,4,6-tris(dimethylaminomethyl)phenol            | <b>Fresh water</b>            |
|                                                  | 0.084 mg/l                    |
|                                                  | <b>Marine</b>                 |
|                                                  | 0.0084 mg/l                   |
|                                                  | <b>Sewage Treatment Plant</b> |
|                                                  | 0.2 mg/l                      |

8.2 Exposure controls

|                                         |                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b> | : 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

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

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying to EN 166 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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. Wear suitable gloves tested to EN 374. Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), 4H/Silver Shield® (> 0.07 mm), fluor rubber (> 0.35 mm), Viton® (> 0.7 mm), nitrile rubber (> 0.75 mm) May be used, gloves(breakthrough time) 4 - 8 hours: PVC (> 0.5 mm), neoprene (> 0.35 mm), butyl rubber (> 0.4 mm)
- For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves. 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** : Use chemical-resistant protective suit / disposable overall. 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 European Standard 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 : Colourless to light yellow.
- Odour : Amine-like.
- Odour threshold : Not applicable.
- Melting point/freezing point : Not applicable.
- Initial boiling point and boiling range : Not available.
- Flammability (solid, gas) : Not applicable.
- Upper/lower flammability or explosive limits : Not available.
- Flash point : Closed cup: 28°C (82.4°F)
- Auto-ignition temperature : Not available.

| Ingredient name | °C     | °F    | Method |
|-----------------|--------|-------|--------|
| xylene          | 432    | 809.6 |        |
| ethylbenzene    | 432.22 | 810   |        |
| benzyl alcohol  | 436    | 816.8 |        |

- Decomposition temperature : Not available.
- pH : Not applicable.
- Viscosity : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): >20.5 mm²/s

Solubility(ies) :

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |
| hot water  | Not soluble |

- Partition coefficient: n-octanol/ water : Not applicable.

- Vapour pressure : Not available.

| Ingredient name | Vapour Pressure at 20°C |        |        | Vapour pressure at 50°C |     |        |
|-----------------|-------------------------|--------|--------|-------------------------|-----|--------|
|                 | mm Hg                   | kPa    | Method | mm Hg                   | kPa | Method |
| ethylbenzene    | 9.30076                 | 1.2    |        |                         |     |        |
| xylene          | 6.7                     | 0.89   |        |                         |     |        |
| benzyl alcohol  | 0.05                    | 0.0067 |        |                         |     |        |

- Density : Not available.
- Density : 0.948 g/cm³
- Vapour density : Not available.
- Explosive properties : Not available.
- Oxidising properties : Not available.
- Particle characteristics
- Median particle size : Not applicable.

9.2 Other information

No additional information.

**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**

xylene

**Result****Rat - Oral - LD50**

4300 mg/kg

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

4300 mg/kg

Toxic effects: Skin After topical exposure - Corrosive**Rat - Inhalation - LC50 Vapour**

11 mg/l [4 hours]

ethylbenzene

**Rat - Oral - LD50**

3500 mg/kg

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

&gt;5000 mg/kg

**Rat - Male - Inhalation - LC50 Vapour**

11 mg/l [4 hours]

benzyl alcohol

**Rat - Oral - LD50**

1230 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma3-aminomethyl-  
3,5,5-trimethylcyclohexylamine**Rat - Oral - LD50**

1030 mg/kg

2-methylpentane-1,5-diamine

**Rat - Oral - LD50**

1690 mg/kg

2,4,6-tris(dimethylaminomethyl)phenol

**Rat - Oral - LD50**

500 mg/kg

**Conclusion/Summary [Product]** : Not available.**Acute toxicity estimates**

SECTION 11: Toxicological information

| Product/ingredient name                      | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|----------------------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Barrier 80 XT Comp B                         | 1361.7       | 2727.6         | N/A                      | 20.7                        | N/A                                 |
| xylene                                       | 4300         | 1100           | N/A                      | 11                          | N/A                                 |
| aminepoxyadduct                              | 500          | N/A            | N/A                      | N/A                         | N/A                                 |
| ethylbenzene                                 | 3500         | N/A            | N/A                      | 11                          | N/A                                 |
| benzyl alcohol                               | 1200         | N/A            | N/A                      | N/A                         | N/A                                 |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 1030         | N/A            | N/A                      | N/A                         | N/A                                 |
| 2-methylpentane-1,5-diamine                  | 1690         | 1100           | N/A                      | 11                          | N/A                                 |
| 2,4,6-tris(dimethylaminomethyl)phenol        | 500          | N/A            | N/A                      | N/A                         | N/A                                 |

Skin corrosion/irritation

Product/ingredient name

xylene

Result

Rat - Skin - Mild irritant

Duration of treatment/exposure: 8 hours

Amount/concentration applied: 60 microliters

2-methylpentane-1,5-diamine

Rabbit - Skin - Severe irritant

Amount/concentration applied: 0.5 Milliliters

2,4,6-tris(dimethylaminomethyl)phenol

Rat - Skin - Severe irritant

Amount/concentration applied: 0.25 ml

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

xylene

Result

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 87 milligrams

aminepoxyadduct

Mammal - species unspecified - Eyes - Irritant

benzyl alcohol

Mammal - species unspecified - Eyes - Mild irritant

2-methylpentane-1,5-diamine

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 0.1 Milliliters

2,4,6-tris(dimethylaminomethyl)phenol

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 50 µg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name

aminepoxyadduct

Result

Mammal - species unspecified - skin

Result: Sensitising

3-aminomethyl-  
3,5,5-trimethylcyclohexylamine

Mammal - species unspecified - skin

Result: Sensitising



**SECTION 11: Toxicological information****Skin****Conclusion/Summary [Product]** : Not available.**Ingredient name**aminepoxyadduct  
3-aminomethyl-  
3,5,5-trimethylcyclohexylamine**Conclusion/Summary**May cause an allergic skin reaction.  
May cause an allergic skin reaction.**Respiratory****Conclusion/Summary [Product]** : Not available.**Germ cell mutagenicity**

Not available.

**Conclusion/Summary [Product]** : Not available.**Carcinogenicity**

Not available.

**Conclusion/Summary [Product]** : Not available.**Reproductive toxicity**

Not available.

**Conclusion/Summary [Product]** : Not available.**Specific target organ toxicity (single exposure)****Product/ingredient name**xylene  
2-methylpentane-1,5-diamine**Result**STOT SE 3, H335 (Respiratory tract irritation)  
STOT SE 3, H335 (Respiratory tract irritation)**Specific target organ toxicity (repeated exposure)****Product/ingredient name**

ethylbenzene

**Result**

STOT RE 2, H373 (hearing organs)

**Aspiration hazard****Product/ingredient name**xylene  
ethylbenzene**Result**ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1**Information on likely routes of exposure**

Not available.

**Potential acute health effects**

- Eye contact** : Causes serious eye damage.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**SECTION 11: Toxicological information**

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary [Product]** : Not available.

- General** : May cause 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** : No known significant effects or critical hazards.

**Other information**

Not available.

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

xylene

**Acute - LC50 - Marine water**

Crustaceans - Daggerblade grass shrimp - *Palaemonetes pugio*  
8500 µg/l [48 hours]  
Effect: Mortality

**Acute - LC50 - Fresh water**

Fish - Fathead minnow - *Pimephales promelas*  
Age: 31 days; Size: 18.4 mm; Weight: 0.077 g  
13400 µg/l [96 hours]  
Effect: Mortality

aminepoxyadduct

**Acute - LC50**

Fish - Trout - *Oncorhynchus Mykiss*  
7.9 mg/l [96 hours]

**Acute - EC50**

Daphnia - *Daphnia magna*  
5.7 mg/l [48 hours]

**Acute - EC50**

SECTION 12: Ecological information

|                                                  |                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  | Algae - <i>Pseudokirchneriella subcapitata</i><br>8.1 mg/l [72 hours]                                                                                                                                                                                                                                                         |
| ethylbenzene                                     | <b>Acute - EC50</b><br>Daphnia<br>2.93 mg/l [48 hours]<br><u>Effect</u> : Intoxication<br><br><b>Acute - LC50</b><br>Fish<br>4.2 mg/l [96 hours]<br><u>Effect</u> : Mortality<br><br><b>Acute - EC50 - Marine water</b><br>Algae - Diatom - <i>Skeletonema costatum</i><br>7700 µg/l [96 hours]<br><u>Effect</u> : Population |
| 3-aminomethyl-<br>3,5,5-trimethylcyclohexylamine | <b>Acute - LC50</b><br>Fish<br>110 mg/l [96 hours]<br><br><b>Acute - EC50</b><br>OECD 202<br>Daphnia<br>23 mg/l [48 hours]<br><br><b>Acute - EC50</b><br>Crustaceans<br>388 mg/l [48 hours]                                                                                                                                   |

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

| Product/ingredient name | Result                     |
|-------------------------|----------------------------|
| aminepoxyadduct         | 0% [28 days] - Not readily |

Conclusion/Summary [Product] : Not available.

| Product/ingredient name                          | Aquatic half-life | Photolysis | Biodegradability |
|--------------------------------------------------|-------------------|------------|------------------|
| xylene                                           | -                 | -          | Readily          |
| aminepoxyadduct                                  | -                 | -          | Not readily      |
| ethylbenzene                                     | -                 | -          | Readily          |
| benzyl alcohol                                   | -                 | -          | Readily          |
| 3-aminomethyl-<br>3,5,5-trimethylcyclohexylamine | -                 | -          | Not readily      |

12.3 Bioaccumulative potential

**SECTION 12: Ecological information**

| Product/ingredient name        | LogP <sub>ow</sub> | BCF         | Potential |
|--------------------------------|--------------------|-------------|-----------|
| xylene                         | 3.12               | 8.1 to 25.9 | Low       |
| ethylbenzene                   | 3.6                | -           | Low       |
| benzyl alcohol                 | 0.87               | <100        | Low       |
| 3-aminomethyl-                 | 0.99               | -           | Low       |
| 3,5,5-trimethylcyclohexylamine |                    |             |           |
| 2,4,6-tris                     | 0.219              | -           | Low       |
| (dimethylaminomethyl)          |                    |             |           |
| phenol                         |                    |             |           |

**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  |
|--------------------------------|-----|-----|-----|-----|------|-----|-----|
| xylene                         | No  | N/A | No  | No  | No   | N/A | No  |
| aminepoxyadduct                | 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 |
| benzyl alcohol                 | No  | N/A | No  | No  | No   | N/A | No  |
| 3-aminomethyl-                 | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| 3,5,5-trimethylcyclohexylamine |     |     |     |     |      |     |     |
| 2-methylpentane-               | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| 1,5-diamine                    |     |     |     |     |      |     |     |
| 2,4,6-tris                     | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| (dimethylaminomethyl)          |     |     |     |     |      |     |     |
| phenol                         |     |     |     |     |      |     |     |

**12.6 Other adverse effects**

No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

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

**13.1 Waste treatment methods****Product**

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

**Hazardous waste** : Yes.

**Waste list**

| Waste code | Waste code definition                                                             |
|------------|-----------------------------------------------------------------------------------|
| 08 01 11*  | Waste paint and varnish containing organic solvents or other dangerous 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.

**SECTION 13: Disposal considerations**

- 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                                                               |
|----------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>14.1 UN number</b>                  | UN3470                                       | UN3470                                       | UN3470                                                                           | UN3470                                                             |
| <b>14.2 UN proper shipping name</b>    | Paint related material, corrosive, flammable | Paint related material, corrosive, flammable | Paint related material, corrosive, flammable. Marine pollutant (aminepoxyadduct) | Paint related material, corrosive, flammable                       |
| <b>14.3 Transport hazard class(es)</b> | 8 (3)<br><br>8 (3)<br>                       | 8 (3)<br><br>8 (3)<br>                       | 8 (3)<br><br>8 (3)<br>                                                           | 8 (3)<br><br>8 (3)<br>                                             |
| <b>14.4 Packing group</b>              | II                                           | II                                           | II                                                                               | II                                                                 |
| <b>14.5 Environmental hazards</b>      | Yes.                                         | Yes.                                         | Yes.                                                                             | Yes. The environmentally hazardous substance mark is not required. |

**Additional information****ADR/RID**

- : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Hazard identification number** 83  
**Tunnel code** (D/E)

**ADN**

- : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IMDG**

- : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Emergency schedules** F-E, S-C  
Segregation Group: 18- Alkalis

**IATA**

- : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Marking**

- : The environmental hazardous / marine pollutant mark is only applicable for packages containing more than 5 litres for liquids and 5 kg for solids.

- 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****Turkey Regulation No. 30105, KKDIK****Annex 14 - List of substances subject to authorization****Annex 14**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex 17 - Restrictions** : Not applicable.  
**on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles**

**Ozone depleting substances**

Not listed.

**Regulation on the prevention of major industrial accidents and reduction of their effects**

This product is controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

**Danger criteria**

| Category  |
|-----------|
| P5c<br>E2 |

**EU regulations****EU Regulation (EC) No. 1907/2006 (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** : Not applicable.  
**on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles**

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Persistent Organic Pollutants**

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**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

**SECTION 15: Regulatory information**

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  
 EUH statement = SEA-specific Hazard statement  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 SGG = Segregation Group  
 vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification according to regulation SEA: RG.-10/12/2020-31330**

| Classification                   | Justification         |
|----------------------------------|-----------------------|
| Flam. Liq. 3, H226               | On basis of test data |
| Acute Tox. 4, H302               | Calculation method    |
| Skin Corr. 1B, H314              | Calculation method    |
| Eye Dam. 1, H318                 | Calculation method    |
| Skin Sens. 1, H317               | Calculation method    |
| STOT SE 3, H335                  | Calculation method    |
| STOT RE 2, H373 (hearing organs) | Calculation method    |
| Aquatic Chronic 2, H411          | 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.                                                |
| H335 | May cause respiratory irritation.                                  |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects.                   |
| H412 | Harmful to aquatic life with long lasting effects.                 |

**Full text of classifications [SEA/GHS]**

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                     |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                  |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                  |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                  |
| Skin Corr. 1A     | SKIN CORROSION/IRRITATION - Category 1A         |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B         |
| Skin Corr. 1C     | SKIN CORROSION/IRRITATION - Category 1C         |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                 |
| Skin Sens. 1A     | SKIN SENSITISATION - Category 1A                |

## SECTION 16: Other information

|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| Skin Sens. 1B | SKIN SENSITISATION - Category 1B                                |
| STOT RE 2     | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3     | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |

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