

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Nexler EPOLIS EP-100 składnik B

| | | | |
|---------------|---------------------|---------|-----|
| Creation date | 17th December 2020 | Version | 2.2 |
| Revision date | 21st September 2022 | | |

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

1.1. Product identifier
Substance / mixture: Nexler EPOLIS EP-100 składnik B
mixture
UFI: SHXJ-Q0QV-V006-KDU0

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use

For priming and strengthening concrete substrates for all types of insulation, epoxy coatings, laminates, putties, jointless floors as well as cement adhesives and mortars. For self-impregnation of concrete, building stone, brick, clinker surfaces, etc.

Main intended use

PC-CON-5 Construction chemicals

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

| | |
|-----------------------------|-------------------------------------|
| Name or trade name | IZOHAN sp. z o.o. |
| Address | Łużycka 2, Gdynia, 81-963 Poland |
| Identification number (CRN) | 191528483 |
| VAT Reg No | PL5862073821 |
| Phone | +48 58 781 45 85 |
| E-mail | info@izohan.eu |
| Web address | www.izohan.eu |

Competent person responsible for the safety data sheet

| | |
|--------|-------------------|
| Name | IZOHAN sp. z o.o. |
| E-mail | info@izohan.eu |

1.4. Emergency telephone number

National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 3, H226
Asp. Tox. 1, H304
Skin Corr. 1B, H314
Skin Sens. 1, H317
Eye Dam. 1, H318
Acute Tox. 4, H332
STOT SE 3, H335, H336
Repr. 2, H361d
STOT RE 2, H373

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. May be fatal if swallowed and enters airways. Causes serious eye damage. Causes severe skin burns and eye damage. May cause drowsiness or dizziness. Suspected of damaging the unborn child. Harmful if inhaled. May cause an allergic skin reaction.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

reaction mass of ethylbenzene and xylene
isobutanol
3-aminomethyl-3,5,5-trimethylcyclohexylamine
salicylic acid

Hazard statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|--|---|---------------------|---|------|
| EC: 905-588-0 Registration number: 01-2119488216-32 | reaction mass of ethylbenzene and xylene | 31-36 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 | 1, 2 |
| Index: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Registration number: 01-2119484609-23 | isobutanol | 19-20 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336 | 1 |
| Index: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 Registration number: 01-2119492630-38 | benzyl alcohol | 11-23 | Acute Tox. 4, H302+H332 Eye Irrit. 2, H319 | |
| Index: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8 Registration number: 01-2119514687-32 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 11-23 | Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Specific concentration limit: ATE Oral = 1030 mg/kg bw Skin Sens. 1A, H317: C ≥ 0,001 % | |
| CAS: 38294-64-3 EC: 500-101-4 Registration number: 01-2119965165-33 | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 4,5-9,2 | Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412 | 3 |
| CAS: 1477-55-0 EC: 216-032-5 Registration number: 01-2119480150-50 | m-Phenylenebis(methylamine) (MXDA) | 2,2-4,6 | Acute Tox. 4, H302+H332 Skin Corr. 1B, H314 Skin Sens. 1B, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412 | |
| Index: 607-732-00-5 CAS: 69-72-7 EC: 200-712-3 Registration number: 01-2119486984-17 | salicylic acid | 2,2-4,6 | Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d | |

Notes

- 1 A substance for which exposure limits are set.
- 2 Substance for which biological limit values exist.
- 3 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

Full text of all classifications and hazard statements is given in the section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Do not perform artificial respiration without self-protection (e.g. a mask). Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Ensure medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache. May cause respiratory irritation. May cause drowsiness or dizziness.

If on skin

Causes severe skin burns. May cause an allergic skin reaction.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool. Storage temperature required between +10 ° C and +25 ° C.

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

| Substance name (component) | Type | Value | Note |
|----------------------------|--------|-----------------------|---|
| ethylbenzene | WEL 8h | 441 mg/m ³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |
| | WEL 8h | 100 ppm | |

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United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

| Substance name (component) | Type | Value | Note |
|-----------------------------------|-----------|-----------------------|---|
| ethylbenzene | WEL 15min | 552 mg/m ³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |
| | WEL 15min | 125 ppm | |
| Xylene, o-,m-,p- or mixed isomers | WEL 8h | 220 mg/m ³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |
| | WEL 8h | 50 ppm | |
| | WEL 15min | 441 mg/m ³ | |
| | WEL 15min | 100 ppm | |
| isobutanol (CAS: 78-83-1) | WEL 8h | 154 mg/m ³ | |
| | WEL 8h | 50 ppm | |
| | WEL 15min | 231 mg/m ³ | |
| | WEL 15min | 75 ppm | |

United Kingdom

EH40/2005 Workplace exposure limits (Third edition, published 2018)

| Substance name (component) | Type | Value | Note |
|----------------------------|-----------|-----------------------|------|
| isobutanol (CAS: 78-83-1) | WEL 8h | 154 mg/m ³ | |
| | WEL 8h | 50 ppm | |
| | WEL 15min | 231 mg/m ³ | |
| | WEL 15min | 75 ppm | |

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Biological limit values

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

| Name | Parameter | Value | Tested material | Time of sampling |
|--|----------------------|-------------------------|-----------------|------------------|
| reaction mass of ethylbenzene and xylene | Methylhippuric acids | 650 mmol/mol creatinine | Urine | End of shift |

DNEL

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-------------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 0.073 mg/m ³ | Local chronic effects | | |
| Workers | Inhalation | 0.073 mg/m ³ | Local acute effects | | |
| Consumers | Oral | 0.526 mg/kg bw/day | Systemic chronic effects | | |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-------------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 0.493 mg/m ³ | Systemic chronic effects | | |
| Workers | Dermal | 0.14 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Inhalation | 0.074 mg/m ³ | Systemic chronic effects | | |
| Consumers | Dermal | 0.050 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Oral | 0.050 mg/kg bw/day | Systemic chronic effects | | |

benzyl alcohol

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-----------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 22 mg/m ³ | Systemic chronic effects | | |
| Workers | Inhalation | 110 mg/m ³ | Systemic acute effects | | |
| Workers | Dermal | 8 mg/kg bw/day | Systemic chronic effects | | |
| Workers | Dermal | 40 mg/kg bw/day | Systemic acute effects | | |
| Consumers | Inhalation | 5.4 mg/m ³ | Systemic chronic effects | | |
| Consumers | Inhalation | 27 mg/m ³ | Systemic acute effects | | |
| Consumers | Dermal | 4 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Dermal | 20 mg/kg bw/day | Systemic acute effects | | |
| Consumers | Oral | 4 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Oral | 20 mg/kg bw/day | Systemic acute effects | | |

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isobutanol

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-----------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 310 mg/m ³ | Local chronic effects | | |
| Consumers | Oral | 25 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Inhalation | 55 mg/m ³ | Local chronic effects | | |

m-Phenylenebis(methylamine) (MXDA)

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-----------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 1.2 mg/m ³ | Systemic chronic effects | | |
| Workers | Inhalation | 0.2 mg/m ³ | Local chronic effects | | |
| Workers | Dermal | 0.33 mg/kg bw/day | Systemic chronic effects | | |

reaction mass of ethylbenzene and xylene

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|------------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 442 mg/m ³ | Systemic acute effects | | |
| Workers | Inhalation | 442 mg/m ³ | Local acute effects | | |
| Workers | Dermal | 212 mg/kg bw/day | Systemic chronic effects | | |
| Workers | Inhalation | 221 mg/m ³ | Local chronic effects | | |
| Workers | Inhalation | 221 mg/m ³ | Systemic chronic effects | | |
| Consumers | Inhalation | 260 mg/m ³ | Systemic acute effects | | |
| Consumers | Inhalation | 260 mg/m ³ | Local acute effects | | |
| Consumers | Dermal | 125 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Inhalation | 65.3 mg/m ³ | Systemic chronic effects | | |
| Consumers | Inhalation | 65.3 mg/m ³ | Local chronic effects | | |
| Consumers | Oral | 12.5 mg/kg bw/day | Systemic chronic effects | | |

salicylic acid

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|---------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 5 mg/m ³ | Systemic chronic effects | | |
| Workers | Inhalation | 5 mg/m ³ | Local chronic effects | | |
| Workers | Dermal | 2.3 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Inhalation | 4 mg/m ³ | Systemic chronic effects | | |
| Consumers | Dermal | 1 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Oral | 1 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Oral | 4 mg/kg bw/day | Systemic acute effects | | |

PNEC

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Value | Value determination | Source |
|------------------------------|------------|---------------------|--------|
| Drinking water | 0.06 mg/l | | |
| Seawater | 0.006 mg/l | | |
| Water (intermittent release) | 0.23 mg/l | | |

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3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Value | Value determination | Source |
|---|--|---------------------|--------|
| Microorganisms in wastewater treatment plants | 3.18 mg/l | | |
| Freshwater sediment | 5.784 mg/kg of dry substance of sediment | | |
| Sea sediments | 0.578 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 1.121 mg/kg of dry substance of soil | | |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Value | Value determination | Source |
|---|---|---------------------|--------|
| Drinking water | 0.011 mg/l | | |
| Water (intermittent release) | 0.111 mg/l | | |
| Seawater | 0.001 mg/l | | |
| Microorganisms in wastewater treatment plants | 10 mg/l | | |
| Freshwater sediment | 4320 mg/kg of dry substance of sediment | | |
| Sea sediments | 432 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 864 mg/kg of dry substance of soil | | |
| Food chain | 1 mg/kg of food | | |

benzyl alcohol

| Route of exposure | Value | Value determination | Source |
|---|--|---------------------|--------|
| Drinking water | 1 mg/l | | |
| Seawater | 0.1 mg/l | | |
| Water (intermittent release) | 2.3 mg/l | | |
| Microorganisms in wastewater treatment plants | 39 mg/l | | |
| Freshwater sediment | 5.27 mg/kg of dry substance of sediment | | |
| Sea sediments | 0.527 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 0.456 mg/kg of dry substance of soil | | |

isobutanol

| Route of exposure | Value | Value determination | Source |
|-------------------|-----------|---------------------|--------|
| Drinking water | 0.4 mg/l | | |
| Seawater | 0.04 mg/l | | |

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isobutanol

| Route of exposure | Value | Value determination | Source |
|---|--|---------------------|--------|
| Freshwater sediment | 1.56 mg/kg of dry substance of sediment | | |
| Sea sediments | 0.156 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 0.076 mg/kg of dry substance of soil | | |
| Microorganisms in wastewater treatment plants | 10 mg/l | | |
| Water (intermittent release) | 11 mg/l | | |

m-Phenylenebis(methylamine) (MXDA)

| Route of exposure | Value | Value determination | Source |
|---|---|---------------------|--------|
| Drinking water | 0.094 mg/l | | |
| Seawater | 0.009 mg/l | | |
| Water (intermittent release) | 0.152 mg/l | | |
| Microorganisms in wastewater treatment plants | 10 mg/l | | |
| Freshwater sediment | 12.4 mg/kg of dry substance of sediment | | |
| Sea sediments | 1.24 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 2.44 mg/kg of dry substance of soil | | |

reaction mass of ethylbenzene and xylene

| Route of exposure | Value | Value determination | Source |
|---|--|---------------------|--------|
| Drinking water | 0.327 mg/l | | |
| Seawater | 0.327 mg/l | | |
| Freshwater sediment | 12.46 mg/kg of dry substance of sediment | | |
| Sea sediments | 12.46 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 2.31 mg/kg of dry substance of soil | | |
| Water (intermittent release) | 0.327 mg/l | | |
| Microorganisms in wastewater treatment plants | 6.58 mg/l | | |

salicylic acid

| Route of exposure | Value | Value determination | Source |
|------------------------------|-----------|---------------------|--------|
| Drinking water | 0.2 mg/l | | |
| Water (intermittent release) | 1 mg/l | | |
| Seawater | 0.02 mg/l | | |

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salicylic acid

| Route of exposure | Value | Value determination | Source |
|---|--|---------------------|--------|
| Microorganisms in wastewater treatment plants | 162 mg/l | | |
| Freshwater sediment | 1.42 mg/kg of dry substance of sediment | | |
| Sea sediments | 0.142 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 0.166 mg/kg of dry substance of soil | | |

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Mask with a filter in a poorly ventilated environment.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|------------------------------------|
| Physical state | liquid |
| Colour | colourless, yellow |
| color intensity | light |
| Odour | irritating |
| Melting point/freezing point | <-25 °C |
| Boiling point or initial boiling point and boiling range | 130 °C |
| Flammability | flammable liquid and vapor |
| Lower and upper explosion limit | not determined |
| Flash point | 27 °C |
| Auto-ignition temperature | not determined |
| benzyl alcohol (CAS: 100-51-6) | 436 °C |
| isobutanol (CAS: 78-83-1) | 400 °C |
| reaction mass of ethylbenzene and xylene | 432-528 °C |
| Decomposition temperature | not applicable |
| pH | 9 (10% solution) |
| Kinematic viscosity | <20,5 mm ² /s at 40 °C |
| Solubility in water | partially soluble |
| Solubility in other solvents | dissolves in most organic solvents |
| Partition coefficient n-octanol/water (log value) | does not apply to mixtures |
| Vapour pressure | not determined |
| isobutanol (CAS: 78-83-1) | 12 hPa at 20 °C |

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reaction mass of ethylbenzene and xylene 6,5-9,5 hPa at 20 °C
Density and/or relative density
Density 0,93 g/cm³ at 22 °C
Relative vapour density >1
Particle characteristics applies to solids

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with peroxides, aldehydes, ketones, epoxy resins.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Reactive metals (e.g. sodium, calcium, zinc, etc.). Substances which react with hydroxyl compounds. Organic acids (e.g. acetic acid, citric acid, etc.). Mineral acid. Sodium chlorate. The product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides can rapidly decompose the peroxide and create an explosion hazard. Oxidizers.

10.6. Hazardous decomposition products

Not developed under normal uses. As a result of thermal decomposition or reactions with incompatible substances, compounds such as nitric acid, ammonia, nitrogen oxides, carbon oxides, aldehydes may be formed. Nitrogen oxides can react with water vapor to form caustic nitric acid.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Harmful if inhaled.

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|-----------------------|------------------|--------------------|-------------------|---------------|-------------------------|-----|
| Oral | LD ₅₀ | OECD 401 | 1030 mg/kg bw | | Rat (Rattus norvegicus) | M |
| Inhalation (aerosols) | LC ₅₀ | EPA OPPTS 870.1300 | >5.01 mg/l of air | 4 hour | Rat (Rattus norvegicus) | F/M |
| Dermal | LD ₅₀ | OECD 402 | >2000 mg/kg bw | 24 hour | Rat (Rattus norvegicus) | F/M |
| Oral | ATE | | 1030 mg/kg bw | | | |

benzyl alcohol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|-------------------|------------------|------------------|--------------------|---------------|-------------------------|-----|
| Oral | LD ₅₀ | | 1620 mg/kg bw | | Rat (Rattus norvegicus) | M |
| Inhalation | LD ₅₀ | OECD 403 | >4.178 mg/l of air | 4 hour | Rat (Rattus norvegicus) | F/M |
| Dermal | LD ₅₀ | EPA OTS 798.1100 | >2000 mg/kg bw | 24 hour | Rabbit | F/M |

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isobutanol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|-------------------|------------------|----------|--------------------|---------------|-------------------------|-----|
| Oral | LD ₅₀ | OECD 401 | 3350 mg/kg bw | | Rat (Rattus norvegicus) | F |
| Inhalation | LC ₅₀ | | >18.2 mg/l of air | 6 hour | Rat (Rattus norvegicus) | F/M |
| Dermal | LD ₅₀ | OECD 402 | 2000-2460 mg/kg bw | 24 hour | Rabbit | F/M |

m-Phenylenebis(methylamine) (MXDA)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|-------------------|------------------|----------|------------------|---------------|-------------------------|-----|
| Oral | LD ₅₀ | OECD 401 | 930 mg/kg bw | | Rat (Rattus norvegicus) | F/M |
| Inhalation | LC ₅₀ | OECD 403 | 1.34 mg/l of air | 4 hour | Rat (Rattus norvegicus) | F/M |
| Dermal | LD ₅₀ | OECD 402 | 2000 mg/kg bw | | Rabbit | |

reaction mass of ethylbenzene and xylene

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|--------------------|------------------|--------|-------------------------|---------------|---------|-----|
| Oral | LD ₅₀ | EU B.1 | 3523 mg/kg bw | | Rat | M |
| Inhalation (vapor) | LC ₅₀ | EU B.2 | 27124 mg/m ³ | 4 hour | Rat | M |
| Skin | LD ₅₀ | | 12126 mg/kg bw | | Rabbit | M |

salicylic acid

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|-------------------|------------------|----------|----------------|---------------|-------------------------|-----|
| Oral | LD ₅₀ | OECD 401 | 891 mg/kg bw | | Rat (Rattus norvegicus) | M |
| Dermal | LD ₅₀ | OECD 402 | >2000 mg/kg bw | 24 hour | Rat (Rattus norvegicus) | F/M |

Irritation

isobutanol

| Route of exposure | Result | Exposure time | Species |
|-------------------|------------|---------------|---------|
| Inhalation | Irritating | | |

m-Phenylenebis(methylamine) (MXDA)

| Route of exposure | Result | Exposure time | Species |
|-------------------|-------------------|---------------|---------|
| Inhalation | Highly irritating | | |

reaction mass of ethylbenzene and xylene

| Route of exposure | Result | Exposure time | Species |
|-------------------|------------|---------------|---------|
| Inhalation | Irritating | | |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Result | Method | Exposure time | Species | Source |
|-------------------|-----------|--------|---------------|---------|--------|
| Dermal | Corrosive | | 24 hour | Rabbit | |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Result | Method | Exposure time | Species | Source |
|-------------------|-----------|----------|---------------|---------|--------------------|
| Dermal | Corrosive | OECD 431 | 1 hour | Human | in vitro, EpiDerm™ |

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benzyl alcohol

| Route of exposure | Result | Method | Exposure time | Species | Source |
|-------------------|---------------------|----------|---------------|---------|--------|
| Dermal | Slightly irritating | OECD 404 | 4 hour | Rabbit | |

isobutanol

| Route of exposure | Result | Method | Exposure time | Species | Source |
|-------------------|------------|----------|---------------|---------|--------|
| Dermal | Irritating | OECD 404 | 4 hour | Rabbit | |

m-Phenylenebis(methylamine) (MXDA)

| Route of exposure | Result | Method | Exposure time | Species | Source |
|-------------------|-----------|--------|---------------|---------|--------|
| Dermal | Corrosive | | | | |

reaction mass of ethylbenzene and xylene

| Route of exposure | Result | Method | Exposure time | Species | Source |
|-------------------|------------|--------|---------------|---------|--------|
| Dermal | Irritating | EU B.4 | 4 hour | Rabbit | |

Serious eye damage/irritation

Causes serious eye damage. Causes severe skin burns and eye damage.

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Result | Method | Exposure time | Species |
|-------------------|-------------------------------|----------|---------------|---------|
| Eye | Corrosive, Serious eye damage | OECD 405 | | Rabbit |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Result | Method | Exposure time | Species |
|-------------------|-------------------------------|--------|---------------|---------|
| Eye | Corrosive, Serious eye damage | | | |

benzyl alcohol

| Route of exposure | Result | Method | Exposure time | Species |
|-------------------|------------|----------|---------------|---------|
| Eye | Irritating | OECD 405 | 24 hour | Rabbit |

isobutanol

| Route of exposure | Result | Method | Exposure time | Species |
|-------------------|----------------------------------|----------|---------------|---------|
| Eye | Highly irritating, Causes damage | OECD 405 | 24 hour | Rabbit |

m-Phenylenebis(methylamine) (MXDA)

| Route of exposure | Result | Method | Exposure time | Species |
|-------------------|-----------|--------|---------------|---------|
| Eye | Corrosive | | | |

reaction mass of ethylbenzene and xylene

| Route of exposure | Result | Method | Exposure time | Species |
|-------------------|------------|--------|---------------|---------|
| Eye | Irritating | | | Rabbit |

salicylic acid

| Route of exposure | Result | Method | Exposure time | Species |
|-------------------|--------------------|--------|---------------|---------|
| Eye | Serious eye damage | | | |

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Respiratory or skin sensitisation

May cause an allergic skin reaction.

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Result | Method | Exposure time | Species | Sex |
|-------------------|-------------|----------|---------------|--|-----|
| Dermal | Sensitizing | OECD 406 | 24 hour | Guinea-pig (Cavia aperea f. porcellus) | M |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Result | Method | Exposure time | Species | Sex |
|-------------------|-------------|--------|---------------|---------|-----|
| Dermal | Sensitizing | | | | |

m-Phenylenebis(methylamine) (MXDA)

| Route of exposure | Result | Method | Exposure time | Species | Sex |
|-------------------|-------------|--------|---------------|---------|-----|
| Dermal | Sensitizing | | | | |

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Suspected of damaging the unborn child.

Toxicity for specific target organ - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Parameter | Result | Method | Value | Exposure time | Species | Sex |
|-------------------|-----------|------------------|----------|-----------------|---------------|-------------------------|-----|
| Oral | NOAEL | Systemic effects | OECD 408 | 59 mg/kg bw/day | 13 week | Rat (Rattus norvegicus) | F/M |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Route of exposure | Parameter | Result | Method | Value | Exposure time | Species | Sex |
|-------------------|-----------|------------------|----------|-----------------|---------------|-------------------------|-----|
| Oral | NOAEL | Systemic effects | OECD 408 | 10 mg/kg bw/day | 90 day | Rat (Rattus norvegicus) | F/M |

benzyl alcohol

| Route of exposure | Parameter | Result | Method | Value | Exposure time | Species | Sex |
|-----------------------|-----------|---------------------------------|----------|-------------------------------|---------------|-------------------------|-----|
| Oral | NOAEL | Systemic effects | OECD 451 | 400 mg/kg bw/day | 103 week | Rat (Rattus norvegicus) | F/M |
| Inhalation (aerosols) | NOAEC | Local effects, Systemic effects | OECD 412 | 1072 mg/m ³ of air | 4 week | Rat (Rattus norvegicus) | F/M |

isobutanol

| Route of exposure | Parameter | Result | Method | Value | Exposure time | Species | Sex |
|--------------------|-----------|--|----------|--------------------|---------------|-------------------------|-----|
| Inhalation (vapor) | NOAEL | Systemic effects, Effects on fertility | | ≥7.5 mg/l of air | 17 week | Rat (Rattus norvegicus) | F/M |
| Oral | NOAEL | Systemic effects | OECD 408 | ≥1450 mg/kg bw/day | 90 day | Rat (Rattus norvegicus) | F/M |

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m-Phenylenebis(methylamine) (MXDA)

| Route of exposure | Parameter | Result | Method | Value | Exposure time | Species | Sex |
|-----------------------|-----------|------------------|----------|-----------------------------|---------------|-------------------------|-----|
| Oral | NOEL | | OECD 407 | 150 mg/kg bw/day | 28 day | Rat (Rattus norvegicus) | F/M |
| Inhalation (aerosols) | NOAEC | Systemic effects | OECD 413 | 30 mg/m ³ of air | 13 week | Rat (Rattus norvegicus) | F/M |
| Inhalation (aerosols) | NOAEC | Local effects | OECD 413 | 5 mg/m ³ of air | 13 week | Rat (Rattus norvegicus) | F/M |

reaction mass of ethylbenzene and xylene

| Route of exposure | Parameter | Result | Method | Value | Exposure time | Species | Sex |
|--------------------|-----------|------------------|---------|------------------------|---------------|-------------------------|-----|
| Oral | NOAEL | Systemic effects | EU B.32 | 250 mg/kg bw/day | 103 week | Rat (Rattus norvegicus) | F/M |
| Inhalation (vapor) | NOAEC | Systemic effects | | 3515 mg/m ³ | 13 week | Dog | M |

salicylic acid

| Route of exposure | Parameter | Result | Method | Value | Exposure time | Species | Sex |
|--------------------|-----------|------------------|----------|------------------------------|---------------|-------------------------|-----|
| Oral | NOAEL | Systemic effects | | 45.4 mg/kg bw/day | 2 year | Rat (Rattus norvegicus) | F/M |
| Inhalation (vapor) | NOAEC | Systemic effects | OECD 412 | 635 mg/m ³ of air | 4 week | Rat (Rattus norvegicus) | F |

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Exposure time | Species | Environment |
|-------------------|---------------------|-----------|---------------|---|-------------|
| LC ₅₀ | | 110 mg/l | 96 hour | Fishes (Leuciscus idus) | |
| EC ₅₀ | OECD 202 | 23 mg/l | 48 hour | Aquatic invertebrates (Daphnia magna) | |
| ErC ₅₀ | EU C.3 (87/302/EEC) | >50 mg/l | 72 hour | Algae (Desmodesmus subspicatus) | |
| NOEC | | 1120 mg/l | 18 hour | Aquatic microorganisms (Pseudomonas putida) | |
| NOEC | EU C.3 (87/302/EEC) | 11.2 mg/l | 72 hour | Algae (Desmodesmus subspicatus) | |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Exposure time | Species | Environment |
|-----------|----------|-----------|---------------|------------------------------|-------------|
| LL 50 | OECD 203 | 70.7 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |

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4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Exposure time | Species | Environment |
|-----------|----------|-----------|---------------|---|-------------|
| EL 50 | OECD 202 | 11.1 mg/l | 48 hour | Aquatic invertebrates (Daphnia magna) | |
| EL 50 | OECD 201 | 79.4 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |
| NOELR | OECD 201 | 3.1 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |

benzyl alcohol

| Parameter | Method | Value | Exposure time | Species | Environment |
|------------------|--------------|----------|---------------|---|-------------|
| LC ₅₀ | EPA OPP 72-1 | 460 mg/l | 96 hour | Fishes (Pimephales promelas) | |
| EC ₅₀ | OECD 202 | 230 mg/l | 48 hour | Aquatic invertebrates (Daphnia magna) | |
| EC ₅₀ | OECD 201 | 770 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |
| NOEC | OECD 201 | 310 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |
| IC ₅₀ | | 390 mg/l | 24 hour | Aquatic microorganisms (Nitrosomonas) | |

isobutanol

| Parameter | Method | Value | Exposure time | Species | Environment |
|------------------|----------|------------|---------------|---|------------------|
| LC ₅₀ | | 1430 mg/l | 96 hour | Fishes (Pimephales promelas) | |
| EC ₅₀ | | 1100 mg/l | 48 hour | Aquatic invertebrates (Daphnia pulex) | |
| EC ₅₀ | OECD 201 | 1799 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |
| IC ₅₀ | | >1000 mg/l | 16 hour | Aquatic microorganisms | Activated sludge |

m-Phenylenebis(methylamine) (MXDA)

| Parameter | Method | Value | Exposure time | Species | Environment |
|-------------------|----------|------------|---------------|---------------------------------------|------------------|
| LC ₅₀ | OECD 203 | 87.6 mg/l | 96 hour | Fishes (Oryzias latipes) | |
| EC ₅₀ | OECD 202 | 15.2 mg/l | 48 hour | Aquatic invertebrates (Daphnia magna) | |
| ErC ₅₀ | OECD 201 | 20.3 mg/l | 72 hour | Algae (Selenastrum capricornutum) | |
| EC ₅₀ | OECD 209 | >1000 mg/l | 0,5 hour | Aquatic microorganisms | Activated sludge |

reaction mass of ethylbenzene and xylene

| Parameter | Method | Value | Exposure time | Species | Environment |
|------------------|----------|----------|---------------|------------------------------|-------------|
| LC ₅₀ | OECD 203 | 2.6 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |

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reaction mass of ethylbenzene and xylene

| Parameter | Method | Value | Exposure time | Species | Environment |
|------------------|----------|------------------------------------|---------------|---|------------------|
| EC ₅₀ | OECD 201 | 2.2 mg/l | 73 hour | Algae (Pseudokirchneriella subcapitata) | |
| EC ₅₀ | OECD 209 | >157 mg/l | 3 hour | Aquatic microorganisms | Activated sludge |
| NOEC | OECD 201 | 0.44 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |
| IC ₅₀ | | 220 mg/kg of dry substance of soil | 10 hour | Microorganisms | |
| EC ₅₀ | OECD 202 | 1 mg/l | 24 hour | Aquatic invertebrates (Daphnia magna) | |

salicylic acid

| Parameter | Method | Value | Exposure time | Species | Environment |
|------------------|----------|-----------|---------------|---|-------------|
| LC ₅₀ | OECD 203 | 1380 mg/l | 96 hour | Fishes (Pimephales promelas) | |
| EC ₅₀ | OECD 202 | 870 mg/l | 48 hour | Aquatic invertebrates (Daphnia magna) | |
| EC ₅₀ | OECD 201 | >100 mg/l | 72 hour | Algae (Scenedesmus subspicatus) | |
| EC ₅₀ | | 380 mg/l | 16 hour | Aquatic microorganisms (Pseudomonas putida) | |
| NOEC | | 162 mg/l | 16 hour | Aquatic microorganisms (Pseudomonas putida) | |

Chronic toxicity

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Exposure time | Species | Environment |
|-----------|----------|--------|---------------|---------------------------------------|-------------|
| NOEC | OECD 202 | 3 mg/l | 21 day | Aquatic invertebrates (Daphnia magna) | |

benzyl alcohol

| Parameter | Method | Value | Exposure time | Species | Environment |
|-----------|----------|---------|---------------|---------------------------------------|-------------|
| NOEC | OECD 211 | 51 mg/l | 21 day | Aquatic invertebrates (Daphnia magna) | |

m-Phenylenebis(methylamine) (MXDA)

| Parameter | Method | Value | Exposure time | Species | Environment |
|-----------|----------|-----------|---------------|---------------------------------------|-------------|
| NOEC | OECD 211 | 4.7 mg/l | 21 day | Aquatic invertebrates (Daphnia magna) | |
| NOEC | OECD 201 | 10.5 mg/l | 72 hour | Algae (Selenastrum capricornutum) | |

reaction mass of ethylbenzene and xylene

| Parameter | Method | Value | Exposure time | Species | Environment |
|-----------|--------|-----------|---------------|--|-------------|
| NOEC | | >1.3 mg/l | 56 day | Fishes (Salmo gairdneri) | |
| NOEC | | 0.96 mg/l | 7 day | Aquatic invertebrates (Ceriodaphnia dubia) | |

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reaction mass of ethylbenzene and xylene

| Parameter | Method | Value | Exposure time | Species | Environment |
|-----------|-----------|-----------------------------------|---------------|--------------------------------|------------------|
| NOEC | OECD 301F | 16 mg/l | 28 day | Aquatic microorganisms | Activated sludge |
| NOEC | | 16 mg/kg of dry substance of soil | 14 week | Invertebrates (Eisenia andrei) | |

salicylic acid

| Parameter | Method | Value | Exposure time | Species | Environment |
|-----------|----------|---------|---------------|---------------------------------------|-------------|
| NOEC | OECD 211 | 10 mg/l | 21 day | Aquatic invertebrates (Daphnia magna) | |

12.2. Persistence and degradability

Biodegradability

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Exposure time | Environment | Result |
|-----------|--------|-------|---------------|------------------|----------------------|
| | | 8 % | 28 day | Activated sludge | Hardly biodegradable |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Exposure time | Environment | Result |
|-----------|-----------|-------|---------------|-------------|-------------------|
| | OECD 301F | 0 % | 28 day | | Not biodegradable |

benzyl alcohol

| Parameter | Method | Value | Exposure time | Environment | Result |
|-----------|-----------|---------|---------------|-------------|----------------------|
| | OECD 301A | 95-97 % | 21 day | | Easily biodegradable |

isobutanol

| Parameter | Method | Value | Exposure time | Environment | Result |
|-----------|-----------|----------|---------------|-------------|----------------------|
| ThOD | OECD 301C | 90-100 % | 14 day | | Easily biodegradable |

m-Phenylenbis(methylamine) (MXDA)

| Parameter | Method | Value | Exposure time | Environment | Result |
|-----------|-----------|-------|---------------|------------------|----------------------|
| | OECD 301B | 49 % | 28 day | Activated sludge | Hardly biodegradable |

reaction mass of ethylbenzene and xylene

| Parameter | Method | Value | Exposure time | Environment | Result |
|-----------|--------|-------|---------------|-------------|----------------------|
| | | | | | Easily biodegradable |

salicylic acid

| Parameter | Method | Value | Exposure time | Environment | Result |
|-----------|--------|-------|---------------|-------------|----------------------|
| | | | | | Easily biodegradable |

The product is partially biodegradable.

12.3. Bioaccumulative potential

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] |
|-----------|----------|-------|---------------|---------|-------------|------------------|
| Log Pow | OECD 107 | 0.99 | | | | 23°C |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] |
|-----------|--------|-------|---------------|---------|-------------|------------------|
| Log Pow | | 3.6 | | | | 25°C |

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benzyl alcohol

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] |
|-----------|--------|-------|---------------|---------|-------------|------------------|
| Log Pow | | 1.05 | | | | 20°C |

isobutanol

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] |
|-----------|----------|-------|---------------|---------|-------------|------------------|
| Log Pow | OECD 117 | 1 | | | | 25°C |

m-Phenylenebis(methylamine) (MXDA)

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] |
|-----------|----------|-------|---------------|--------------------------|-------------|------------------|
| BCF | | <0.3 | | Fishes (Cyprinus carpio) | | |
| Log Pow | OECD 107 | 0.18 | | | | 25°C |

reaction mass of ethylbenzene and xylene

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] |
|-----------|--------|-------|---------------|---------|-------------|------------------|
| BCF | | 25.9 | | | | |
| Log Pow | | 3.16 | | | | 20°C |

salicylic acid

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] |
|-----------|--------|-------|---------------|---------|-------------|------------------|
| Log Pow | | 2.64 | | | | |

Bioaccumulation is not expected.

12.4. Mobility in soil

3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Environment | Temperature |
|-----------|--------|-------|-------------|-------------|
| Koc | | 928 | | 20°C |

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| Parameter | Method | Value | Environment | Temperature |
|-----------|----------|-------|-------------|-------------|
| Log Koc | OECD 121 | 6.59 | | 30°C |

benzyl alcohol

| Parameter | Method | Value | Environment | Temperature |
|-----------|--------|-------|-------------|-------------|
| Koc | | 15.7 | | 20°C |

m-Phenylenebis(methylamine) (MXDA)

| Parameter | Method | Value | Environment | Temperature |
|-----------|--------|-------|-------------|-------------|
| Koc | | 1288 | | 20°C |

reaction mass of ethylbenzene and xylene

| Parameter | Method | Value | Environment | Temperature |
|-----------|----------|-------|-------------|-------------|
| Log Koc | OECD 121 | 2.73 | | |

salicylic acid

| Parameter | Method | Value | Environment | Temperature |
|-----------|----------|-------|-------------|-------------|
| Koc | OECD 121 | 35 | | 20°C |

The product shows low mobility in soil.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

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The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Danger of environmental contamination, follow the applicable waste disposal regulations. Store unused product and contaminated packaging in closed containers for waste collection and hand over for disposal to a specialized company authorized to conduct such activity. Do not pour unused product into drains. It must not be disposed of together with municipal waste. Empty packaging can be used for energy in a waste incineration plant or collected in a landfill with an appropriate classification. Perfectly cleaned packaging can be recycled. The classification of waste may change depending on where it is generated.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

UN 2734

14.2. UN proper shipping name

AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (contains: 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

No.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.

83

UN number

2734

Classification code

CF1

Safety signs

8+3



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Road transport - ADR

| | |
|---------------------|-----|
| Special provisions | 274 |
| Limited quantities | 1 L |
| Excepted quantities | E2 |

Packaging

| | |
|--------------------------|-------------|
| Packing instructions | P001, IBC02 |
| Mixed packing provisions | MP15 |

Portable tanks and bulk containers

| | |
|--------------------|-----------|
| Guidelines | T11 |
| Special provisions | TP2, TP27 |

ADR tank

| | |
|----------------------------|-------|
| Tank code | L4BN |
| Vehicles for tank carriage | FL |
| Transport category | 2 |
| Tunnel restriction code | (D/E) |

Special provision for operation

S2

Railway transport - RID

| | |
|---------------------|-----|
| Special provisions | 274 |
| Excepted quantities | E2 |

Packaging

| | |
|--------------------------|-------------|
| Packing instructions | P001, IBC02 |
| Mixed packing provisions | MP15 |

Portable tanks and bulk containers

| | |
|--------------------|-----------|
| Guidelines | T11 |
| Special provisions | TP2, TP27 |

RID Tanks

| | |
|--------------------|------|
| Tank code | L4BN |
| Transport category | 0 |

Air transport - ICAO/IATA

| | |
|---|------|
| Packaging instructions for limited amount | Y840 |
| Packaging instructions passenger | 851 |
| Cargo packaging instructions | 855 |

Marine transport - IMDG

| | |
|----------------------|----------|
| EmS (emergency plan) | F-E, S-C |
|----------------------|----------|

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Public health act 1961. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |

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| | |
|-----------|--|
| 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. |
| H336 | May cause drowsiness or dizziness. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H302+H332 | Harmful if swallowed or if inhaled. |
| H312+H332 | Harmful in contact with skin or if inhaled. |

Guidelines for safe handling used in the safety data sheet

| | |
|----------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P260 | Do not breathe vapours. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P301+P310 | IF SWALLOWED: Immediately call a doctor. |
| P331 | Do NOT induce vomiting. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|------------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CE ₅₀ | Concentration of a substance when it is affected 50% of the population |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EL ₅₀ | Effective Loading for 50% of the tested organisms |
| EmS | Emergency plan |
| EuPCS | European Product Categorisation System |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| IC ₅₀ | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |

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|------------------|---|
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| LL ₅₀ | Lethal Loading for 50% of tested organisms |
| log Kow | Octanol-water partition coefficient |
| LZO | Volatile organic compounds |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| NOAEC | No observed adverse effect concentration |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| NOELR | No Observed Effect Loading Rate |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UE | European Union |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| vPvB | Very Persistent and very Bioaccumulative |
| WE | Identification code for each substance listed in EINECS |
| Acute Tox. | Acute toxicity |
| Aquatic Chronic | Hazardous to the aquatic environment (chronic) |
| Asp. Tox. | Aspiration hazard |
| Eye Dam. | Serious eye damage |
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| Repr. | Reproductive toxicity |
| Skin Corr. | Skin corrosion |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

This safety data sheet replaces version 2.1 dated 07.03.2022.

Updated sections: 2,3,7,9,10,11,12,13,15,16.

More information

Classification procedure - calculation method and based on tests of physicochemical properties.

Statement

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The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.