

SAFETY DATA SHEET

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



EXAMPLE Dangerous mixture

Creation date 28. February 2018
Revision date Version 1.0

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

- 1.1. Product identifier**
Substance / mixture EXAMPLE Dangerous mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
mixture's intended use Degreasing agent.
Disapproved uses of mixture 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**
- Manufacturer**
Name or trade name SBLCore s.r.o.
Address Sezemická 2757/2, Praha 9 - Horní Počernice, 193 00
Czech Republic
Identification number (ID) 04278968
Phone +420 725 582 495
E-mail sblcore@sblcore.com
Web address www.sblcore.com
- Competent person responsible for the safety data sheet**
Name SBLCore s.r.o.
E-mail sblcore@sblcore.com
- 1.4. Emergency telephone number**
National Health Service (NHS) 111

SECTION 2: Hazards identification

2.1. Substance or mixture classification

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

The mixture is classified as dangerous.

Flam. Liq. 2, H225
Asp. Tox. 1, H304
Skin Irrit. 2, H315
Skin Sens. 1, H317
Eye Irrit. 2, H319
STOT SE 3, H336
STOT RE 2, H373
Aquatic Chronic 2, H411

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

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram



Signal word

Danger

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Hazardous substances

cyclohexane
ethyl(2R)-2-{4-[(6-chloro-1,3-benzoxazol-2-yl)oxy]phenoxy}propanoate
isopropanol

Hazard statements

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves.
P301+P310 IF SWALLOWED: Immediately call a.
P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.
P391 Collect spillage.

2.3. Other hazards

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

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. |
|---|--|---------------------|---|-------|
| Index: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4 Registration number: 01-2119489370-35 | ethylbenzene | 20 | Flam. Liq. 2, H225 Acute Tox. 4, H332 | 1 |
| Index: 601-017-00-1 CAS: 110-82-7 EC: 203-806-2 Registration number: 01-2119463273-41 | cyclohexane | 10-<15 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400, M=1 Aquatic Chronic 1, H410, M=1 | 1, 2 |
| Index: 607-707-00-9 CAS: 71283-80-2 Registration number: 01-3179417542-24 | ethyl(2R)-2-{4-[(6-chloro-1,3-benzoxazol-2-yl)oxy]phenoxy}propanoate | 10 | Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400, M=1 Aquatic Chronic 1, H410, M=1 | |
| Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25 | isopropanol | 9 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | |

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| Revision date | | | | | |
| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note. | |
| Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43 | ethanol | 5 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 % | | |

Notes

- 1 Substance for which exposure limits of Community for working environment exist.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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.

Inhalation

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.

Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water/shower.

Eye contact

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. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

Ingestion

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). Provide 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

Inhalation

Cough, headache. May cause drowsiness or dizziness.

Skin contact

May cause an allergic skin reaction.

Eye contact

Causes serious eye irritation.

Ingestion

Irritation, nausea.

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

Symptomatic treatment.

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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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Highly 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 aerosols. Prevent contact with skin and eyes.

6.2. Environmental precautions

Do not allow to enter drains. 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. 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 aerosols. Prevent contact with skin and eyes. No smoking. Use only non-sparking tools. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. 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 precautionary measures against static discharge. Avoid release to the environment.

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.

Content

435

Material of package

ALU (41), Aluminium (Metals)



ALU

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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

European Union

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|------------------------------|------|------------------|-----------------------|------|-----------|
| ethylbenzene (CAS: 100-41-4) | OEL | 8 hours | 442 mg/m ³ | | EU limits |
| | OEL | 8 hours | 100 ppm | | |
| | OEL | Short-term | 884 mg/m ³ | | |
| | OEL | Short-term | 200 ppm | | |
| cyclohexane (CAS: 110-82-7) | OEL | 8 hours | 700 mg/m ³ | | EU limits |
| | OEL | 8 hours | 200 ppm | | |

United Kingdom of Great Britain and Northern Ireland

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|------------------------------|------|------------------|------------------------|------|--------|
| ethylbenzene (CAS: 100-41-4) | WEL | 8 hours | 441 mg/m ³ | | Gestis |
| | WEL | Short-term | 552 mg/m ³ | | |
| | WEL | 8 hours | 100 ppm | | |
| | WEL | Short-term | 125 ppm | | |
| cyclohexane (CAS: 110-82-7) | WEL | 8 hours | 350 mg/m ³ | | Gestis |
| | WEL | Short-term | 1050 mg/m ³ | | |
| | WEL | 8 hours | 100 ppm | | |
| | WEL | Short-term | 300 ppm | | |
| isopropanol (CAS: 67-63-0) | WEL | 8 hours | 999 mg/m ³ | | Gestis |
| | WEL | Short-term | 1250 mg/m ³ | | |
| | WEL | 8 hours | 400 ppm | | |
| | WEL | Short-term | 500 ppm | | |
| ethanol (CAS: 64-17-5) | WEL | 8 hours | 1920 mg/m ³ | | Gestis |
| | WEL | 8 hours | 1000 ppm | | |

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.

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 against organic vapours in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

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

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|-------------------------------------|
| Appearance | |
| Physical state | liquid at 20°C |
| color | colourless |
| Odour | after solvents |
| Odour threshold | data not available |
| pH | data not available |
| Melting point/freezing point | data not available |
| Initial boiling point and boiling range | 120 °C |
| Flash point | 18 °C |
| Evaporation rate | data not available |
| Flammability (solid, gas) | Highly flammable liquid and vapour. |
| Upper/lower flammability or explosive limits | |
| flammability limits | data not available |
| explosive limits | data not available |
| Vapour pressure | data not available |
| Vapour density | data not available |
| Relative density | data not available |
| Solubility(ies) | |
| solubility in water | insoluble |
| solubility in fats | data not available |
| Partition coefficient: n-octanol/water | data not available |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| Viscosity | data not available |
| Explosive properties | data not available |
| Oxidising properties | data not available |

9.2. Other information

| | |
|----------------------|-------------------------|
| Density | 0,934 g/cm ³ |
| ignition temperature | data not available |

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

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

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

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Acute toxicity

Based on available data the classification criteria are not met.

cyclohexane

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|--------|--------------------|------------------|---------|-----|
| Dermal | LD ₅₀ | | >2000 mg/kg | | Rat | |
| Oral | LD ₅₀ | | >5000 mg/kg bw/day | | Rat | F/M |

ethanol

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|--------------------|------------------|--------|---------------|------------------|---------|-----|
| Inhalation (vapor) | LC ₅₀ | | 124.7 mg/l | 4 hour | Rat | |
| Oral | LD Lo | | 7000 mg/kg bw | | Rat | |
| Inhalation (vapor) | LC ₅₀ | | 116.9 mg/l | 4 hour | Rat | |
| Inhalation (vapor) | LC ₅₀ | | 133.8 mg/l | 4 hour | Rat | |

ethylbenzene

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|--------------------|------------------|--------|-------------|------------------|---------|-----|
| Oral | LD ₅₀ | | 3500 mg/kg | | Rat | |
| Dermal | LD ₅₀ | | 17800 mg/kg | | Rat | |
| Dermal | LD ₅₀ | | 15433 mg/kg | | Rabbit | |
| Inhalation (vapor) | LC ₅₀ | | 17.4 mg/l | 4 hour | Rat | |
| Oral | LD ₅₀ | | 4769 mg/kg | | Rat | |
| Inhalation (vapor) | LC ₅₀ | | 17400 mg/kg | 4 hour | Rat | |

isopropanol

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|--------------------|------------------|----------|------------|------------------|---------|-----|
| Oral | LD ₅₀ | | 5.84 mg/kg | | Rat | |
| Inhalation (vapor) | LC ₅₀ | OECD 403 | >10000 ppm | 6 hour | Rat | F/M |

Skin corrosion/irritation

Causes skin irritation.

ethylbenzene

| Route of exposure | Result | Time of exposure | Species |
|-------------------|---------------------|------------------|---------|
| | Slightly irritating | | Rabbit |

Serious eye damage/irritation

Causes serious eye irritation.

cyclohexane

| Route of exposure | Result | Method | Time of exposure | Species |
|-------------------|---------------------|--------|------------------|---------|
| | Slightly irritating | | | Rabbit |

ethanol

| Route of exposure | Result | Method | Time of exposure | Species |
|-------------------|------------|--------|------------------|---------|
| | Irritating | | | Rabbit |

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ethylbenzene

| Route of exposure | Result | Method | Time of exposure | Species |
|-------------------|------------|--------|------------------|---------|
| | Irritating | | | Rabbit |

isopropanol

| Route of exposure | Result | Method | Time of exposure | Species |
|-------------------|--------------------|----------|------------------|---------|
| Eye | Serious eye damage | OECD 405 | | Rabbit |

Respiratory or skin sensitisation

May cause an allergic skin reaction.

cyclohexane

| Route of exposure | Result | Time of exposure | Species | Sex |
|-------------------|-----------------|------------------|---------|-----|
| | Not sensitizing | | | |

ethylbenzene

| Route of exposure | Result | Time of exposure | Species | Sex |
|-------------------|-----------------|------------------|---------|-----|
| | Not sensitizing | | Human | |

isopropanol

| Route of exposure | Result | Time of exposure | Species | Sex |
|-------------------|-----------------|------------------|------------|-----|
| | Not sensitizing | | Guinea-pig | F/M |

Mutagenicity

isopropanol

| Result | Time of exposure | Specific target organ | Species | Sex |
|---|------------------|-----------------------|------------|-----|
| Negative without metabolic regeneration, Negative with metabolic regeneration | | Ovary | Guinea-pig | F/M |

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

ethanol

| Route of exposure | Parameter | Value | Result | Species | Sex |
|-------------------|-----------|-------|---------------|---------|-----|
| Oral | | | Indeterminate | Rat | |

Reproductive toxicity

Based on available data the classification criteria are not met.

ethanol

| | Parameter | Value | Result | Species | Sex |
|----------------------|-----------|-------------------|---------------|---------|-----|
| Effects on fertility | NOAEL | > 16000 ppm | No effect | Rat | |
| | NOAEL | 5200 mg/kg/24hour | Indeterminate | Rat | |

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ethylbenzene

| | Parameter | Value | Result | Species | Sex |
|--|-----------|----------|---------------|---------|-----|
| | NOAEL | 4.3 mg/l | Indeterminate | Rat | |

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

ethanol

| Route of exposure | Parameter | Value | Time of exposure | Specific target organ | Result | Species | Sex |
|-------------------|-----------|----------|------------------|-----------------------|-----------------------|---------|-----|
| Inhalation | LOAEL | 2.6 mg/l | 30 min | Nervous system | Drowsiness, Dizziness | Human | |
| Inhalation | LOAEL | 9.4 mg/l | | Lungs | Indeterminate | Human | |

ethylbenzene

| Route of exposure | Parameter | Value | Time of exposure | Specific target organ | Result | Species | Sex |
|-------------------|-----------|-------|------------------|-----------------------|-----------------------|---------|-----|
| Inhalation | NOAEL | | | Nervous system | Drowsiness, Dizziness | Human | |

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

cyclohexane

| Route of exposure | Parameter | Value | Time of exposure | Specific target organ | Result | Species | Sex |
|-------------------|-----------|----------|------------------|-----------------------|--------|---------|-----|
| Inhalation | NOAEC | 500 mg/l | | | | Mouse | |
| Inhalation | NOAEC | 2000 ppm | | | | Mouse | |

ethylbenzene

| Route of exposure | Parameter | Value | Time of exposure | Specific target organ | Result | Species | Sex |
|-------------------|-----------|----------|------------------|-----------------------|---------------|---------|-----|
| Inhalation | NOAEL | 1.1 mg/l | | Kidney | Indeterminate | Rat | |
| Inhalation | NOAEL | 1.1 mg/l | 103 week | Liver | Indeterminate | Mouse | |
| Inhalation | NOAEL | 3.4 mg/l | 28 day | Bone marrow | Indeterminate | Rat | |
| Inhalation | NOAEL | 2.4 mg/l | 5 day | | Indeterminate | Rat | |
| Inhalation | NOAEL | 3.3 mg/l | 103 week | Endocrine system | Indeterminate | Mouse | |

isopropanol

| Route of exposure | Parameter | Value | Time of exposure | Specific target organ | Result | Species | Sex |
|--------------------|-----------|---------|------------------|-----------------------|--------|-------------------------|-----|
| Inhalation (vapor) | NOEC | 500 ppm | | | | Rat (Rattus norvegicus) | F/M |

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

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Acute toxicity

Toxic to aquatic life with long lasting effects.

cyclohexane

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|------------|------------------|------------------------------|-------------|--------------------|
| EC ₅₀ | 3.78 mg/l | 48 hour | Daphnia (Daphnia magna) | | |
| EC ₅₀ | 3.4 mg/l | 72 hour | Algae | | |
| IC ₅₀ | 0.9 mg/l | 72 hour | Algae | | |
| LC ₅₀ | 9.317 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | | |

ethanol

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|-------------|------------------|---------|-------------|--------------------|
| EC 0 | 3.9 g/l | 200 hour | Fishes | | Experimentally |
| EC ₅₀ | >10000 mg/l | 48 hour | Daphnia | | Experimentally |
| IC ₅₀ | 8800 mg/l | 96 hour | Algae | | Experimentally |

ethylbenzene

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|-----------|------------------|---------|-------------|--------------------|
| EC ₅₀ | 1.81 mg/l | 48 hour | Daphnia | | Experimentally |
| IC ₅₀ | 3.6 mg/l | 72 hour | Algae | | Experimentally |
| LC ₅₀ | 4.2 mg/l | 96 hour | Fishes | | Experimentally |

isopropanol

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|-------------|------------------|-------------------------|-------------|--------------------|
| EC ₅₀ | >10000 mg/l | 48 hour | Daphnia (Daphnia magna) | | |
| LC ₅₀ | 9640 mg/l | 96 hour | Fishes | Freshwater | |

Chronic toxicity

cyclohexane

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|-----------|-----------|------------------|---------|-------------|--------------------|
| NOEC | 0.94 mg/l | 72 hour | Algae | | |

ethanol

| Parameter | Value | Time of exposure | Species | Environment | Determining method |
|------------------|-----------|------------------|------------------------------|-------------|--------------------|
| LC ₅₀ | 9248 mg/l | 48 hour | Invertebrates | | Experimentally |
| NOEC | 250 mg/l | 120 hour | Fishes (Oncorhynchus mykiss) | | Experimentally |
| NOEC | 1000 mg/l | 120 hour | Fishes | | Experimentally |

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

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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. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number

UN 1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (ethylbenzene)

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

I - substances presenting high danger

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

Additional information

Hazard identification No.

33 (Kemler Code)

UN number

1993

Classification code

F1

Safety signs

3+hazardous for the environment



Air transport - ICAO/IATA

Packaging instructions passenger 351

Cargo packaging instructions 361

Marine transport - IMDG

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

MFAG 310

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SECTION 15: Regulatory information

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

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. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

cyclohexane

| Restriction | Conditions of restriction |
|-------------|---|
| 57 | <p>1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0,1 % by weight in package sizes greater than 350 g.</p> <p>2. Neoprene-based contact adhesives containing cyclohexane and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.</p> <p>3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentrations equal to or greater than 0,1 % by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follows:</p> <p>“— This product is not to be used under conditions of poor ventilation. — This product is not to be used for carpet laying.”.</p> |

15.2. Chemical safety assessment

not available

SECTION 16: Other information

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

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Guidelines for safe handling used in the safety data sheet

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves. |
| P301+P310 | IF SWALLOWED: Immediately call a. |
| P331 | Do NOT induce vomiting. |
| P370+P378 | In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish. |
| P391 | Collect spillage. |

Other important information about human health protection

SAFETY DATA SHEET

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



Sample Logo

EXAMPLE Dangerous mixture

Creation date 28. February 2018
Revision date Version 1.0

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 |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC | Identification code for each substance listed in EINECS |
| EC ₅₀ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| EU | European Union |
| 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 |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| LOAEC | Lowest observed adverse effect concentration |
| LOAEL | Lowest observed adverse effect level |
| log K _{ow} | Octanol-water partition coefficient |
| 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 |
| 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 |
| 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 |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Hazardous to the aquatic environment |
| Aquatic Chronic | Hazardous to the aquatic environment |
| Asp. Tox. | Aspiration hazard |
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity - repeated exposure |

SAFETY DATA SHEET

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



EXAMPLE Dangerous mixture

| | | | |
|---------------|-------------------|---------|-----|
| Creation date | 28. February 2018 | Version | 1.0 |
| Revision date | | | |

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. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

Statement

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.