

### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 16 Aug 2022

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

1,3-Bis(1-isocyanato-1-methylethyl)benzene

1.1. Catalog No.:

685717

# 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

### 1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

#### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

### 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Inhalation (Category 1), H330 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Skin sensitisation (Category 1), H317 Specific target organ toxicity - repeated exposure, Inhalation (Category 1), Lungs, H372 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

### 2.2. Label elements

### 2.2.1. Pictogram





2.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Pictogram Signal word Danger
Hazard statement(s)
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H372 Causes damage to organs (Lungs) through prolonged or
repeated exposure if inhaled.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P273 Avoid release to the environment.
P280 Wear protective gloves.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable
for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue
rinsing.
P314 Get medical advice/ attention if you feel unwell.
Supplemental Hazard
Statements
none
2.3 Other hazards
This substance/mixture contains no components considered to be either persistent,
bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at
levels of 0.1% or higher.
Lachrymator.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1.1. Formula

C14H16N2O2

# 3.1.2. Molecular Weight (g/mol)

244.29



3.1.3. CAS-No.

2778-42-9

### 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

### 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Carbon oxides, Nitrogen oxides (NOx)
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Eurther information 5.4 Further information No data available

#### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8. 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. 6.4 Reference to other sections

For disposal see section 13.



### 7. HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Moisture sensitive.
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties a) Appearance Form: liquid Colour: colourless b) Odour No data available c) Odour Threshold No data available d) pH No data available e) Melting point/freezing point 4 °C at 101,3 hPa - OECD Test Guideline 102 f) Initial boiling point and boiling point
and boiling range
106 °C at 1,2 hPa - lit.
g) Flash point 168 °C - closed cup - ASTM D 56
h) Evaporation rate No data available
i) Flammability (solid, app) gas) No data available j) Upper/lower flammability or explosive limits No data available k) Vapour pressure 0,386 hPa at 25 °C I) Vapour density No data available m) Relative density 1,06 g/cm3 at 25 °C n) Water solubility No data available o) Partition coefficient: n-octanol/water No data available p) Auto-ignition temperature 498 °C at 101,3 hPa q) Decomposition tëmperature No data available r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available
 9.2 Other safety information Surface tension 38,6 mN/m at 20 °C



### **10. STABILITY AND REACTIVITY**

10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Avoid moisture.
10.5 Incompatible materials
acids, Peroxides, Alcohols, Amines, Bases
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOX)
Other decomposition products - No data available
In the event of fire: see section 5

#### **11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 5.337 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - female - 4 h - 0,027 mg/l (OECD Test Guideline 403) LD50 Dermal - Rabbit - > 2.000 mg/kg (OECD Test Guideline 402) Skin corresion/irritation Skin corrosion/irritation Skin - Rabbit Result: Moderate skin Irritation (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: Eye irritation (OECD Test Guideline 405) Respiratory or skin sensitisation Buehler Test - Guinea pig May cause allergic skin reaction. Germ cell mutagenicity in vitro assay S. typhimurium Result: negative Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Poproductive toxicity Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure Inhalation - Causes damage to organs through prolonged or repeated exposure. - Lungs Aspiration hazard No data available Additional Information RTECS: CY8480000 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



# **12. ECOLOGICAL INFORMATION**

12.1 Toxicity Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - 0,67 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates static test LC50 - Daphnia magna (Water flea) - 5,2 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (green algae) - 6,9 mg/l - 72 h (OECD Test Guideline 201) 12.2 Persistence and degradability Biodegradability Result: 13,7 % - According to the results of tests of biodegradability this product is not readily biodegradable. (Closed Bottle test) 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Other adverse effects Very toxic to aquatic life with long lasting effects. No data available

### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product

### 14. TRANSPORT INFORMATION

14.1 UN number ADR/RID: 3382 IMDG: 3382 IATA: 3382 14.2 UN proper shipping name ADR/RID: TOXIC BY INHALATION LIQUID, N.O.S. (1,3-Bis(1-isocyanato-1methylethyl)benzene) IMDG: TOXIC BY INHALATION LIQUID, N.O.S. (1,3-Bis(1-isocyanato-1methylethyl)benzene) IATA: Toxic by inhalation liquid, n.o.s. (1,3-Bis(1-isocyanato-1-methylethyl)benzene) Passenger Aircraft: Not permitted for transport Cargo Aircraft: Not permitted for transport 14.3 Transport hazard class(es) ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1 14.4 Packaging group ADR/RID: 1 IMDG: 1 IATA: -14.5 Environmental hazards ADR/RID: yes IMDG Marine pollutant: yes IATA: no 14.6 Special precautions for user No data available



### **15. REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

#### **16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!