

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:

Methyl methacrylate (stabilized)

1.1. Catalog No.:

688203

1.2. Relevant identified uses of the substance or mixture Identified: Laboratory chemical uses: R&D

uses:

### 1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

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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 Flammable liquids (Category 2), H225 Skin irritation (Category 2), H315 Skin sensitisation (Category 1), H317 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

## 2.2. Label elements

#### 2.2.1. Pictogram



2.2.2.

2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal word Danger



Hazard statement(s) H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. Precautionary statement(s) P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves. P370 + P378 In case of fire: Use dry powder or dry sand to extinguish. P403 + P235 Store in a well-ventilated place. Keep cool. 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 Substances Formula : C5H8O2 Molecular weight : 100,12 g/mol CAS-No. : 80-62-6 EC-No. : 201-297-1 Index-No. : 607-035-00-6 Component Classification Concentration Methyl methacrylate Flam. Liq. 2; Skin Irrit. 2; Skin Sens. 1; STOT SE 3; H225, H315, H317, H335 <= 100 %

3.1.1. Formula

C5H8O2

### 3.1.2. Molecular Weight (g/mol)

100.12



3.1.3. CAS-No.

80-62-6

# 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. Consult a physician.

In case of eye contact Flush eyes with water as a precaution.

If swallowed Do NOT induce vomiting. 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 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. 5.4 Further information Use water spray to cool unopened containers

# 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low 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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13).



6.4 Reference to other sections For disposal see section 13

# 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Flash back possible over considerable distance.Container explosion may occur under fire conditions.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
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

leakage.

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

YSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid
Colour: colourless
b) Odour pungent
c) Odour Threshold No data available
d) pH No data available
e) Melting
point/freezing point
Melting point/range: -48 °C
f) Initial boiling point
and boiling range
100 °C
g) Flash point 9 °C - closed cup g) Flash point 9 °C - closed cup h) Evaporation rate No data available i) Flammability (solid, gas) No data available j) Upper/lower flammability or explosive límits Upper explosive limits Upper explosion limit: 12,5 %(V) Lower explosion limit: 2,12 %(V) k) Vapour pressure 37 hPa at 20 °C l) Vapour density 3,46 - (Air = 1.0) m) Relative density 0,936 g/mL at 25 °C n) Water solubility 15,3 g/l at 20 °C



o) Partition coefficient: n-octanol/water log Pow: 1,38 p) Auto-ignition temperature 400<sup>'</sup>°C at 1.013,25 hPa q) Decomposition temperature 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 28 mN/m at 20 °C Relative vapour density 3,46 - (Air = 1.0)

## **10. STABILITY AND REACTIVITY**

10.1 Reactivity No data available

10.2 Chemical stability

Polymerizes with evolution of heat. Avoid contact with incompatible materials. Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing container. Check inhibitor content often adding to bulk liquid if needed. Do not blanket or mix with oxygen-free gas as it renders inhibitor ineffective. Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions Polymerises readily unless inhibited. 10.4 Conditions to avoid May polymerize on exposure to light. May polymerize on exposure to light. Heat, flames and sparks. 10.5 Incompatible materials Oxidizing agents, Peroxides, Amines, Bases, acids, Reducing agents, Halogens 10.6 Hazardous decomposition products Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Carbon oxides In the event of fire: see section 5

## **11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 7.872 mg/kg Remarks: (RTECS) LC50 Inhalation - Rat - 4 h - 78.000 mg/m3 Remarks: (RTECS) LD50 Dermal - Rabbit - > 5.000 mg/kg Remarks: (RTECS) Skin corrosion/irritation Serious eve damage/eve irritation Serious eye damage/eye irritation Respiratory or skin sensitisation Human experience Result: positive Remarks: (IUCLID) Sensitisation test (Magnusson and Kligman): Result: positive (OECD Test Guideline 406) Germ cell mutagenicity Ames test



Salmonella typhimurium Result: negative Mutagenicity (mammal cell test): Result: positive 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. Reproductive toxicity Specific target organ toxicity - single exposure May cause respiratory irritation. Specific target organ toxicity - repeated exposure Aspiration hazard Additional Information RTECS: OZ5075000 Central nervous system depression, Drowsiness, Irritability, Dizziness, Ataxia., narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver - Irregularities - Based on Human Evidence

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity Toxicity to fish LC50 - Lepomis macrochirus (Bluegill sunfish) - 191 mg/l - 96 h Remarks: (IUCLID) Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 69 mg/l - 48 h Remarks: (IUCLID) Toxicity to algae IC50 - Pseudokirchneriella subcapitata (green algae) - 170 mg/l - 4 , OECD Test Guideline 201) Toxicity to bacteria EC5 - Pseudomonas putida - 100 mg/l - 16 h Remarks: (IUCLID) 12.2 Persistence and degradability Biodegradability Result: > 95 % - Readily biodegradable. (OECD Test Guideline 302B) Biochemical Oxygen Demand (BOD) 140 mg/g 12.3 Bioaccumulative potential 12.4 Mobility in soil 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 Harmful to aquatic life

### **13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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: 1247 IMDG: 1247 IATA: 1247 14.2 UN proper shipping name ADR/RID: METHYL METHACRYLATE MONOMER, STABILIZED IMDG: METHYL METHACRYLATE MONOMER, STABILIZED IATA: Methyl methacrylate monomer, stabilized 14.3 Transport hazard class(es) ADR/RID: 3 IMDG: 3 IATA: 3 14.4 Packaging group ADR/RID: 11 IMDG: 11 IATA: 11 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no 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 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!