

# **SAFETY DATA SHEET**

Version 6.3 Revision Date 03.09.2020 Print Date 11.06.2022

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

#### 1.1 Product identifiers

Product name : Ethylene glycol dimethacrylate

Product Number : 335681 Brand : Aldrich

Index-No. : 607-114-00-5 CAS-No. : 97-90-5

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

Identified uses : Laboratory chemicals, Synthesis of substances

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

Company : MilliporeSigma Canada Ltd

2149 WINSTON PARK DRIVE

OAKVILLE ON L6H 6J8

CANADA

Telephone : +1 905 829-9500 Fax : +1 905 829-9292

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC

(International)

24 Hours/day; 7 Days/week

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

# GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Skin sensitization (Category 1), H317

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Short-term (acute) aquatic hazard (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

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Hazard statement(s)

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H402 Harmful to aquatic life.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the

workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal

plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

- none

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms : 1,2-Ethanediol dimethacrylate

Ethylene dimethacrylate

Formula :  $C_{10}H_{14}O_{4}$ Molecular weight : 198.22 g/mol CAS-No. : 97-90-5 EC-No. : 202-617-2 Index-No. : 607-114-00-5

Component	Classification	Concentration *
ethylene glycol dimethacrylate		
	Skin Sens. 1; STOT SE 3; Aquatic Acute 3; H317, H335, H402 Concentration limits: >= 10 %: STOT SE 3, H335;	<= 100 %
* Weight %	·	

For the full text of the H-Statements mentioned in this Section, see Section 16.

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#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### **General advice**

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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

### **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

### Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### 5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

#### **5.3** Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

#### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal see section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Tightly closed.

Recommended storage temperature 2 - 8 °C

Storage class (TRGS 510): 10: Combustible liquids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

#### 8.1 Control parameters

# 8.2 Exposure controls

#### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

### Personal protective equipment

### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: butyl-rubber

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Minimum layer thickness: 0.7 mm Break through time: 120 min

Material tested:Butoject® (KCL 898)

# **Body Protection** protective clothing

# **Respiratory protection**

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### **Control of environmental exposure**

Do not let product enter drains.

### **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a) Appearance Form: clear, liquid

Color: light yellowcolorless

b) Odor ester-like

c) Odor Threshold No data availabled) pH No data available

e) Melting point/range: -40 °C (-40 °F)

point/freezing point

f) Initial boiling point 98 - 100 °C 208 - 212 °F at 7 hPa - lit. and boiling range

g) Flash point 104 °C (219 °F) - Pensky-Martens closed cup - Tested according

to Directive 92/69/EEC.

h) Evaporation rate No data availablei) Flammability (solid, No data available gas)

j) Upper/lower flammability or

No data available

flammability or explosive limits

k) Vapor pressure 0.01 hPa at 20 °C (68 °F) - OECD Test Guideline 104

I) Vapor density 6.84 - (Air = 1.0)

m) Relative density 1.051 g/cm3 at 25 °C (77 °F) - lit.

n) Water solubility 1.086 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - soluble

o) Partition coefficient: log Pow: 2.4 - OECD Test Guideline 107

n-octanol/water

p) Autoignition 395 °C (743 °F) at 1,018 hPa - DIN 51794

temperature

q) Decomposition No data available

temperature

r) Viscosity 3.06 mm2/s at 20 °C (68 °F) - OECD Test Guideline 114 -

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s) Explosive properties No data availablet) Oxidizing properties No data available

### 9.2 Other safety information

Relative vapor

6.84 - (Air = 1.0)

density

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

# 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Contains the following stabilizer(s):

hydroguinone monomethyl ether (>=90 - <110 ppm)

## 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

May polymerize on exposure to light. Exposure to light.

Strong heating.

# 10.5 Incompatible materials

Strong acids, Strong oxidizing agents, Strong bases, Reducing agents, Amines, Heavy metals, Peroxides, Free radical initiators

# 10.6 Hazardous decomposition products

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Nature of decomposition

products not known.

In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Rat - 3,300 mg/kg

Remarks: (RTECS)

Inhalation: Irritating to respiratory system.

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

No data available

### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

(Draize Test)

# Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

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### (OECD Test Guideline 405)

# Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse May cause allergic skin reaction. (OECD Test Guideline 406)

### Germ cell mutagenicity

Chromosome aberration test in vitro

Human lymphocytes Result: negative

OECD Test Guideline 474

Mouse - male and female - Bone marrow

Result: negative

Rat - male - Liver cells

Result: negative

(ECHA)

# Carcinogenicity

No ingredient of this product present at levels greater than or equal to 0.1% is IARC:

identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation. - Respiratory Tract

### Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available

#### **Additional Information**

RTECS: OZ4400000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - 15.95 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic

static test EC50 - Daphnia magna (Water flea) - 44.9 mg/l - 48 h

invertebrates

(OECD Test Guideline 202)

Toxicity to algae

static test ErC50 - Pseudokirchneriella subcapitata - 19 mg/l - 96 h

(OECD Test Guideline 201)

static test EC50 - activated sludge - 570 mg/l - 3 h Toxicity to bacteria

(OECD Test Guideline 209)

### 12.2 Persistence and degradability

Aldrich - 335681 Page 7 of 9 Biodegradability aerobic - Exposure time 28 d

Result: 71.2 % - Readily biodegradable.

(OECD Test Guideline 301D)

### 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Waste material must be disposed of in accordance with the national and loc No mixing with other waste. Handle uncleaned containers like the product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

# **SECTION 14: Transport information**

### DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### **IATA**

UN number: 3334 Class: 9 Packing group: III

Proper shipping name: Aviation regulated liquid, n.o.s. (ethylene glycol dimethacrylate)

# **SECTION 15: Regulatory information**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

#### **SECTION 16: Other information**

### **Further 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

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