

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1.1 Revision date: 10/03/2018

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

1.1 Product identifiers

Product name: Ethylene Glycol Monoisopropyl Ether

Product code: E0110

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Flammable liquids

Acute toxicity (Dermal)

Acute toxicity (Inhalation)

Skin corrosion/irritation

Serious eye damage/eye irritation

Specific target organ toxicity - Single exposure [Category 1]

Specific target organ toxicity - Repeated exposure [Category 2]

Organs

Organs

## 2.2 Label elements

Pictograms or hazard symbols







Signal word Dange

**Hazard statements** H226-Flammable liquid and vapour.

H312+H332-Harmful in contact with skin or if inhaled.

H315-Causes skin irritation. H319-Causes serious eye irritation. H370-Causes damage to organs.

H373-May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements** P260-Do not breathe mist, vapours or spray.

P280-Wear protective gloves, protective clothing, eye protection.

P302+P352+P312+P362+P364-IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. P304+P340+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER or doctor if you feel unwell.

P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice

or attention.

P308+P311-If exposed or concerned: Call a POISON CENTER or doctor.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

Ethylene Glycol Monoisopropyl

Ether

## SECTION 3: Composition/information on ingredients

3.1 Substances

Components: Ethylene Glycol Monoisopropyl Ether

>99.0%(GC) Percent: CAS RN: 109-59-1 EC-No: 203-685-6

Synonyms: 2-Isopropoxyethanol, Isopropyl Cellosolve, Isopropyl Glycol

**Chemical Formula:** 

#### SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician.

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Skin contact:

Call a POISON CENTER or doctor/physician.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Eye contact:

Call a POISON CENTER or doctor/physician.

Call a POISON CENTER or doctor/physician. Rinse mouth. Ingestion:

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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

No data available

#### 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: Dry chemical, foam, water in large amounts, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according

to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if

safe to do so. When extinguishing fire, be sure to wear personal protective equipment

#### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

controlled around the leakage area by roping off, etc

6.2 Environmental precautions Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and

explosion-proof equipment.

6.4 Reference to other sections For disposal see section 13.

# SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

E0110

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.

7.3 Specific end use(s) No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

8.1 Control parameters

ACGIH TLV(TWA): 25 ppm (skin)

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Liquid Form: Clear

Colorless - Almost colorless

Odour: Mild Ether-like
pH: No data available
Melting point/freezing point: No data available

**Boiling point/range:** 141°C **Flash point:** 46°C

Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

 Lower:
 1.7%

 Upper:
 20%

 Vapour pressure:
 0.7kPa/25°C

 Vapour density:
 3.6

 Relative density:
 0.91

Solubility(ies):

[Water] Soluble

[Other solvents]

Soluble: Ether, Alcohols, Acetone

Partition coefficient: 0.04

n-octanol/water:

Autoignition temperature: 320°C

Decomposition temperature: No data available
Dynamic Viscosity: No data available
Kinematic viscosity: No data available

9.2 Other safety information No data available

# SECTION 10: Stability and reactivity

**10.1 Reactivity** No data available

**10.2 Chemical stability** Stable under proper conditions.

**10.3 Possibility of hazardous reactions** No special reactivity has been reported.

**10.4 Conditions to avoid** Spark, Open flame, Static discharge

10.5 Incompatible materials Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

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## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

ihl-rat LC50:3100 mg/m3/4H **Acute Toxicity:** 

ipr-rat LD50:800 mg/kg orl-rat LD50:5660 uL/kg skn-rbt LD50:1600 uL/kg skn-rbt 20 mg/24H MOD eye-rbt 500 mg/24H MLD

Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity:

Skin corrosion/irritation:

No data available No data available

Carcinogenicity:

IARC = No data available NTP = No data available Reproductive toxicity: No data available STOT-single exposure: No data available STOT-repeated exposure: No data available Aspiration hazard: No data available **RTECS Number:** KL5075000

#### SECTION 12: Ecological information

## 12.1 Toxicity

96h LC50:>100 mg/L (Oryzias latipes) Fish: 48h EC50:>1000 mg/L (Daphnia magna) Crustacea:

Algae: 72h EC50:>1000 mg/L (Selenastrum capricornutum)

8% (by BOD), 1% (by TOC), 80% (by GC) 12.2 Persistence and degradability

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

Log Pow: 0.04

No data available Soil adsorption (Koc): Henry's Law (PaM 3/mol): No data available

#### 12.5 Results of PBT and vPvB assessment

Not applicable PBT: vPvB: Not applicable

12.6 Other adverse effects No data available

# SECTION 13: Disposal considerations

# 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

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## SECTION 14: Transport information

**14.1 UN number** 3271

14.2 UN proper shipping name

ADR/RID Ethers, n.o.s IMDG/IMO Ethers, n.o.s ICAO/IATA Ethers, n.o.s

14.3 Transport hazard class(es)

ADR/RID 3: Flammable liquid IMDG/IMO 3: Flammable liquid ICAO/IATA 3: Flammable liquid

14.4 Packaging group

ADR/RID III
IMDG/IMO III
ICAO/IATA III

14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for user No data available

## SECTION 15: Regulatory information

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

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

# 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/03/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet**