

TCI AMERICA SAFETY DATA SHEET

Revision number: 1.1 **Revision date: 07/06/2018**

1. IDENTIFICATION

Product name: 2-Ethoxyethanol

Product code: E0047

For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use.

Company: TCI America

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Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour

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Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Inhalation [Category 4]

Eye Damage/Irritation [Category 2B] WHMIS 2015: Toxic to Reproduction [Category 1B]

Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Single Exposure) [Category 2] Specific Target Organ Toxicity (Repeated Exposure) [Category 1]

Flammable Liquids [Category 3]

Signal word: Danger!

Flammable liquid and vapor Hazard Statement(s):

Harmful if inhaled Causes eve irritation

May damage fertility or the unborn child

Causes damage to: Liver Kidney Testis Central Nervous System

May cause damage to organs: Testis

Causes damage to organs through prolonged or repeated exposure: Testis Hematopoietic System

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash hands and face

thoroughly after handling. Wear protective gloves, protective clothing, face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. 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. If

exposed: Call a poison center or doctor.

Store in a well-ventilated place. Keep cool. Store locked up. [Storage] [Disposal]

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

Causes mild skin irritation. May be harmful if in contact with skin. May be harmful if swallowed.

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[HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance Components: 2-Ethoxyethanol Percent: >99.0%(GC) CAS RN: 110-80-5 Molecular Weight: 90.12 **Chemical Formula:** C4H10O2

Cellosolve, Ethyl Cellosolve, Ethyl Glycol, Ethylene Glycol Monoethyl Ether Synonyms:

4. FIRST-AID MEASURES

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.

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

Symptoms/effects:

Acute: Redness.

No data available Delayed:

Indication of any immediate medical attention:

Not available. Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water in large amounts, carbon dioxide.

These products include: Carbon oxides Hazardous combustion products:

Other specific hazards: Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment

and cleaning up:

controlled around the leakage area by roping off, etc.

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.

Prevention of secondary hazards: Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use

spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

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 all contact!

Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.

Conditions for safe storage, including any incompatibilities

Storage conditions: 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.

Packaging material: Comply with laws. 2-Ethoxyethanol **TCI AMERICA** Page 3 of 5

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

ACGIH TLV(TWA): 5 ppm (skin) OSHA PEL(TWA): 200 ppm (skin) JSOH OELs(TWA): 5 ppm (skin)

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed Appropriate engineering controls:

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

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

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

regulations.

Hand protection: Impervious gloves.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Form: Clear Colour: Colorless Odour: Sweet

No data available Odor threshold: Odour threshold: No data available

Melting point/freezing point: No data available No data available pH: Boiling point/range: 135°C (275°F) Vapour pressure: No data available.

Decomposition temperature: No data available Vapour density: 3.1 No data available

Relative density: **Dynamic Viscosity:**

Kinematic viscosity: No data available

Log Pow: No data available No data available **Evaporation rate(Butyl**

Acetate=1):

44°C (111°F) 235°C (455°F) Flash point: Autoignition temperature:

Flammability(solid, gas): Flammability or explosive limits: No data available

1.7% Lower: Upper: 15.6%

Solubility(ies):

[Water] Miscible

[Other solvents]

Miscible: Methanol, Ether, Benzene, Acetone, Ethanol, Carbon tetrachloride

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: May form explosive peroxides.

Possibility of hazardous reactions: No special reactivity has been reported. Conditions to avoid: Spark, Open flame, Static discharge, Air

Incompatible materials: Oxidizing agents, Acids, Bases, Copper, Copper alloys

Hazardous decomposition products: Carbon dioxide, Carbon monoxide 2-Ethoxyethanol TCI AMERICA Page 4 of 5

11. TOXICOLOGICAL INFORMATION

RTECS Number: KK8050000

Acute Toxicity:

ihl-rat LC50:2000 ppm/7H orl-hmn LDLo:143 mg/kg orl-rat LD50:2125 mg/kg skn-rbt LD50:3.6 mg/kg

Skin corrosion/irritation: skn-rbt 500 mg open MLD

Serious eye damage/irritation:

eye-rbt 500 mg/24H MLD eye-hmn 6000 ppm eye-gpg 10 ug MLD

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

cyt-ham-ovr 6830 mg/L sce-ham-ovr 3170 mg/L spm-rat-orl 23400 mg/kg/5W-l sce-ham-ovr 3170 mg/L

Carcinogenicity: No data available

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

skn-rat TDLo:50 g/kg (7-16D preg) ihl-rat TCLo:100 ppm/7H (14-20D preg) orl-rat TDLo:600 mg/kg (10-20D preg)

Target organ(s):

Causes damage to: Liver Kidney Testis Central Nervous System

May cause damage to organs: Testis

Causes damage to organs through prolonged or repeated exposure: Testis Hematopoietic System

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence / degradability: 76% (by BOD), 89% (by TOC), 100% (by GC)

Bioaccumulative potential(BCF): 0.34

Mobility in soil

 Log Pow:
 -0.54

 Soil adsorption (Koc):
 16

 Henry's Law (PaM³/mol):
 1 x 10³

13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers.

Disposal of container:Dispose of as unused product. Do not re-use empty containers. **Other considerations:**Observe all federal, state and local regulations when disposing of the substance.

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3 Flammable liquid

14. TRANSPORT INFORMATION

DOT (US)

UN number: Class or Division: Packing Group:

UN1171 3 Flammable liquid III

<u>IATA</u>

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1171 Ethylene glycol monoethyl ether 3 Flammable liquid III

<u>IMDG</u>

UN UN1171 Proper Shipping Name: Class or Division: Packing Group:

numb Ethylene glycol monoethyl ether er:

EmS number: F-E, S-D

Reportable Quantitiy: 1000 Pounds (454 Kilograms)

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Listed SARA 302: Not Listed

State Regulations

State Right-to-Know

MassachusettsListedNew JerseyListedPennsylvaniaListedCalifornia Proposition 65:Listed

Other Information

NFPA Rating:
Health: 1
Flammability: 2
Instability: 0
HMIS Classification:
Health: 1
Flammability: 2
Flammability: 2
Physical: 0

International Inventories

 Canada: DSL
 On DSL

 EC-No:
 203-804-1

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1.1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.