

TCI AMERICA SAFETY DATA SHEET

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Ethyl Carbamate

Product code: C0028

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

Company: TCI America

9211 N. Harborgate Street Portland, OR 97203 U.S.A.

Telephone:

+1-800-423-8616 / +1-503-283-1681

Fax:

+1-888-520-1075 / +1-503-283-1987

e-mail:

sales-US@TCIchemicals.com www.TCIchemicals.com

Emergency telephone number:

Chemical Emergencies:

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

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour

+1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

WHMIS 2015:

Acute Toxicity - Oral [Category 4]
Acute Toxicity - Dermal [Category 4]
Germ Cell Mutagenicity [Category 1B]
Carcinogenicity [Category 1B]
Toxic to Reproduction [Category 2]

Specific Target Organ Toxicity (Single Exposure) [Category 3] Specific Target Organ Toxicity (Repeated Exposure) [Category 2]

Signal word: Danger!

Hazard Statement(s): Harmful if swallowed or in contact with skin

May cause genetic defects

May cause cancer

Suspected of damaging fertility or the unborn child

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure: Hematopoietic System

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Prevention]

[Response]

[Storage]

[Disposal]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, 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 swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If exposed or concerned: Get medical advice or attention.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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:

[HNOC]

None.

Ethyl Carbamate TCI AMERICA Page 2 of 5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Substance/mixture: Components: **Ethyl Carbamate** Percent: >98.0%(GC)(N) CAS RN: 51-79-6 Molecular Weight: 89.09 **Chemical Formula:** C₃H₇NO₂

Synonyms: Carbamic Acid Ethyl Ester, Ethyl Urethane, Urethane

4. FIRST-AID MEASURES

Description of first aid measures

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

advice/attention.

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

Get medical advice/attention.

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

medical advice/attention.

Get medical advice/attention.Rinse mouth. Ingestion:

Symptoms/effects:

Acute: No data available

Delayed: May cause heritable genetic damage in humans. Possibly carcinogenic to humans.

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 spray, carbon dioxide.

Specific hazards arising from the

chemical:

Hazardous combustion products:

Other specific hazards:

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

These products include: Carbon oxides Nitrogen oxides 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:

Environmental precautions:

Methods and materials for containment and cleaning up:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Prevent product from entering drains.

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

dispersion of dust. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.

Avoid all contact!

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. Ethyl Carbamate TCI AMERICA Page 3 of 5

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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

Personal protective equipment

Respiratory protection: Dust 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form:
Crystal - Powder
White - Almost white
Odour:
Nearly odorless
Odor threshold:
No data available
No data available

Melting point/freezing point:50°C (122°F)pH:No data availableBoiling point/range:184°C (363°F)Vapour pressure:No data available

Decomposition temperature: No data available **Vapour density:** 3.07

Relative density: No data available Dynamic Viscosity: No data available

Kinematic viscosity: No data available

Log Pow:No data availableEvaporation rate(ButylNo data available

Acetate=1):

Flash point: No data available Autoignition temperature: No data available

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

Lower: No data available Upper: No data available

Solubility(ies):

[Water] Very slightly soluble (0.2g/100mL)

[Other solvents]

Soluble: Ether, Chloroform, Ethanol

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported. Oxidizing agents, Strong acids, Strong bases

Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

Ethyl Carbamate TCI AMERICA Page 4 of 5

11. TOXICOLOGICAL INFORMATION

RTECS Number: FA8400000

Acute Toxicity:

ipr-rat LD50:1500 mg/kg ivn-mus LD50:500 mg/kg orl-mus LD50:2500 mg/kg orl-rat LD50:1809 mg/kg

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

dnd-hmn-fbr 3 mmol/L mmo-sat 50 ug/plate (-S9)

mtr-mus-emb 1100 umol/L

Carcinogenicity:

ipr-rat TDLo:500 mg/kg orl-rat TDLo:30 g/kg/52W-C

scu-rat TDLo:8 g/kg/8W-I

IARC: Group 2A (Probably carcinogenic NTP: b (Reasonably anticipated to be OSHA: No data available

to humans). carcinogens).

Reproductive toxicity:

ivn-ham TDLo: 200 mg/kg (8D preg) ipr-rat TDLo: 10 gm/kg (20D male)

Target organ(s):

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure: Hematopoietic System

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: 96h LC50:>1000 mg/L (Oryzias latipes)

Crustacea: No data available
Algae: No data available

Persistence / degradability: 0 % (by BOD), 3 % (by TOC), 2 % (by GC)

Bioaccumulative potential(BCF): 0.36 - 0.88 (conc. 2 mg/L) , 3.7 - 6.0 (conc. 0.2 mg/L)

Mobility in soil

Disposal of container:

Log Pow: -0.15

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

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.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

Ethyl Carbamate TCI AMERICA Page 5 of 5

14. TRANSPORT INFORMATION

DOT (US)Non-hazardous for transportation.IATANon-hazardous for transportation.IMDGNon-hazardous for transportation.

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

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Listed

Other Information

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

International Inventories

 Canada: DSL
 On DSL

 EC-No:
 200-123-1

16. OTHER INFORMATION

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