

TCI AMERICA SAFETY DATA SHEET

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

1. IDENTIFICATION

Product name: Methacrylic Acid (stabilized with MEHQ)

Product code: M0079

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

Company: TCI America

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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 3] Acute Toxicity - Inhalation [Category 4] Skin Corrosion/Irritation [Category 1A] Eye Damage/Irritation [Category 1]

Specific Target Organ Toxicity (Single Exposure) [Category 3] Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 2]

Flammable Liquids [Category 4] Corrosive to Metals [Category 1] Aquatic Hazard (Acute) [Category 3]

Signal word: Danger!

Hazard Statement(s): Combustible liquid

May be corrosive to metals Toxic in contact with skin Harmful if swallowed or if inhaled

Causes severe skin burns and eye damage

Harmful to aquatic life

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: Liver Nervous System Kidney May cause damage to organs through prolonged or repeated exposure: Respiratory System

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

Keep away from flames and hot surfaces. - No smoking. Keep only in original container. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. 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: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Get medical advice or attention if you feel unwell. Absorb spillage to prevent material damage.

[Storage] Store in corrosive resistant bottle or metal container with a resistant inner liner. Store in a

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

[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:

[HNOC]

May cause polymerization.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Methacrylic Acid (stabilized with MEHQ)

 Percent:
 >99.0%(GC)

 CAS RN:
 79-41-4

 Molecular Weight:
 86.09

 Chemical Formula:
 C4H6O2

Stabilizers: Monomethylether Hydroquinone

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. Immediately call a

POISON CENTER or doctor/physician.

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

Immediately call a POISON CENTER or doctor/physician.

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

Continue rinsing.Immediately call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Symptoms/effects:

Acute: Pain. Redness.

Delayed: May have effects on the respiratory tract.

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.

Specific hazards arising from the

This substance may polimerize explosively when heated or involved in a fire. Container may explode

chemical:

when heated. Combat fire from a sheltered position.
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 personal protective equipment. 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.

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Absorb spilled material in dry sand or inert absorbent before recovering it into a covered 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

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

generation of vapour or mist. Keep away from flames and hot surfaces. 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.

Use corrosive resistant equipment.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Storage conditions:

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws. Keep only in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

ACGIH TLV(TWA): 20 ppm JSOH OELs(TWA): 2 ppm

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

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.

Eve 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): Liquid Clear Form:

Colour: Colorless - Almost colorless

Odour: Pungent

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

Melting point/freezing point: 15°C (Freezing point) (59°F) No data available 160°C (320°F) Boiling point/range: Vapour pressure: No data available.

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

Dynamic Viscosity: 1.38mPa·s (24°C) Relative density:

No data available

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

Acetate=1):

Flash point: 77°C (171°F) Autoignition temperature: 400°C (752°F)

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

> Lower: 1.6% Upper: 8.8%

Solubility(ies):

[Water] Soluble

[Other solvents]

Miscible: Ether, Alcohols

10. STABILITY AND REACTIVITY

Reactivity: No data available

Polymerization may occur under the influences of heat, light or on contact with polymerization initiators Chemical stability:

such as peroxides etc.

Possibility of hazardous reactions: No special reactivity has been reported.

Conditions to avoid: Heat, Open flame, Light

Incompatible materials: Oxidizing agents, Acids, Bases, Amines Hazardous decomposition products: Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

RTECS Number: OZ2975000

Acute Toxicity:

orl-rat LD50:1060 mg/kg skn-rbt LD50:500 mg/kg

ipr-mus LD50:48 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:

dna-esc 50 umol/L

Carcinogenicity:

No data available

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

Reproductive toxicity:

No data available

Target organ(s):

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: Liver Nervous System Kidney

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

12. ECOLOGICAL INFORMATION

Ecotoxicity:

96h LC50:85mg/L (Oncorhynchus mykiss) Fish: Crustacea: 48h EC50:>130mg/L (Daphnia magna)

96h EC50:0.59mg/L (Selenastrum capricornutum) Algae:

91 % (by BOD), 98 % (by TOC), 100 % (by HPLC) Persistence / degradability: 3.1

Bioaccumulative potential(BCF):

Mobility in soil

0.93

Log Pow: Soil adsorption (Koc): 15 Henry's Law (PaM 3/mol): 0.04

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

14. TRANSPORT INFORMATION

DOT (US)

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

UN2531 Methacrylic acid, stabilized 8 Corrosive material

<u>IATA</u>

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

UN2531 Methacrylic acid, stabilized 8 Corrosive material

<u>IMDG</u>

UN UN2531 Proper Shipping Name: Class or Division: Packing Group:

numb Methacrylic acid, stabilized 8 Corrosive material ler:

EmS number: F-A, S-B

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: Not Listed SARA 302: Not Listed

State Regulations
State Right-to-Know

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Listed
Listed
Not Listed

Other Information

NFPA Rating:HMIS Classification:Health:3Health:3Flammability:2Flammability:2Instability:0Physical:0

International Inventories

 Canada: DSL
 On DSL

 EC-No:
 201-204-4

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.