TCI AMERICA

SAFETY DATA SHEET

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

1. IDENTIFICATION

Product name: 2-Hydroxyethyl Acrylate (stabilized with MEHQ)
Product code: A0743

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

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Responsible department:
TCI America
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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]
Eye Damage/Irritation [Category 1]
Sensitization - Skin [Category 1]
Germ Cell Mutagenicity [Category 2]
Specific Target Organ Toxicity (Single Exposure) [Category 3]
Specific Target Organ Toxicity (Repeated Exposure) [Category 1]
Aquatic Hazard (Acute) [Category 1]
Skin Corrosion/Irritation [Category 1B]

Signal word: Danger!

Hazard Statement(s):
Toxic in contact with skin
Harmful if swallowed or if inhaled
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Suspected of causing genetic defects
Very toxic to aquatic life
May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure: Respiratory System

Pictogram(s) or Symbol(s):

Precautionary Statement(s):

[Prevention] Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.

[Response] 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. If exposed or concerned: Get medical advice or attention. Collect spillage.

[Storage] 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: 2-Hydroxyethyl Acrylate (stabilized with MEHQ)
Percent: >95.0%(GC)
CAS RN: 818-61-1
Molecular Weight: 116.12
Chemical Formula: $C_5H_8O_3$
Synonyms: Acrylic Acid 2-Hydroxyethyl Ester (stabilized with MEHQ) , Ethylene Glycol Monoacrylate (stabilized with MEHQ)
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 cause heritable genetic damage in humans. May cause skin sensitization.

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 chemical: This substance may polimerize explosively when heated or involved in a fire. Container may explode when heated. Combat fire from a sheltered position.
Hazardous combustion products: These products include: Carbon oxides
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: Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
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.

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. 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!

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.
Light-sensitive

Packaging material: Comply with laws.

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: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid
Form: Clear
Colour: Colorless - Very pale yellow
Odour: Aromatic
Odor threshold: No data available
Odour threshold: No data available

Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	92°C /1.6kPa (198°F)	**Vapour pressure:**	No data available.
Decomposition temperature:	No data available	**Vapour density:**	4.0
Relative density:	1.11	**Dynamic Viscosity:**	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	**Evaporation rate(Butyl Acetate=1):**	No data available
Flash point:	104°C (219°F)	**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] Soluble
[Other solvents]
Soluble: Many organic solvents

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical stability: Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc.
Possibility of hazardous reactions: No special reactivity has been reported.
Conditions to avoid: Heat, Light
Incompatible materials: Oxidizing agents, Strong acids, Strong bases
Hazardous decomposition products: Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

RTECS Number: AT1750000

Acute Toxicity:
orl-rat LD50:548 mg/kg
skn-rbt LD50:298 mg/kg
ihl-rat LCLo:500 ppm/4H

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

Serious eye damage/irritation:
eye-rbt 1 mg SEV

Respiratory or skin sensitization:
No data available

Germ cell mutagenicity:
cyt-mus-lym 15 mg/L
mnt-mus-lym 18 mg/L

Carcinogenicity:
No data available

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

Reproductive toxicity:
ihl-rat TCLo:5 ppm (6-20D preg)

Target organ(s):
May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure: Respiratory System

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	96h LC50:6.5 mg/L (Oryzias latipes)
Crustacea:	48h EC50:0.78 mg/L (Daphnia magna) 48h EC50:5.2 mg/L (Daphnia magna) 21d NOEC:0.48 mg/L (Daphnia magna)
Algae:	72h EC50:2.6 mg/L (Selenastrum capricornutum)

Persistence / degradability:	78 % (by BOD) , 98 % (by TOC) , 100 % (by GC)
Bioaccumulative potential(BCF):	3
Mobility in soil	
Log Pow:	-0.21
Soil adsorption (Koc):	1
Henry's Law (PaM ^{3}/mol):	8.1 x 10^{-4}

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.
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.

14. TRANSPORT INFORMATION

DOT (US)

UN number:	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2922	Corrosive liquids, toxic, n.o.s	8 Corrosive material	6.1 Toxic material.	II

IATA

UN number:	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2922	Corrosive liquid, toxic, n.o.s	8 Corrosive material	6.1 Toxic material.	II

IMDG

UN number:	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2922	Corrosive liquid, toxic, n.o.s	8 Corrosive material	6.1 Toxic material.	II

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

Other Information

NFPA Rating:		HMIS Classification:	
Health:	3	**Health:**	3
Flammability:	1	**Flammability:**	1
Instability:	0	**Physical:**	0

International Inventories

Canada: DSL	On DSL
EC-No:	212-454-9

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.