TCI AMERICA
SAFETY DATA SHEET

Revision number: 2
Revision date: 04/08/2019

1. IDENTIFICATION

Product name: Acrylamide Monomer [for Electrophoresis]
Product code: A1132

Product use: For laboratory research purposes.
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
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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
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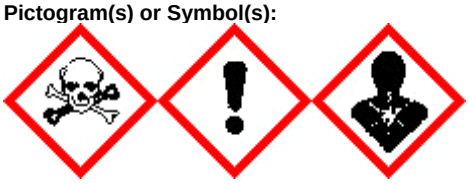
2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:
WHMIS 2015:
Acute Toxicity - Oral [Category 3]
Acute Toxicity - Dermal [Category 3]
Eye Damage/Irritation [Category 2A]
Sensitization - Skin [Category 1]
Germ Cell Mutagenicity [Category 1B]
Carcinogenicity [Category 1B]
Toxic to Reproduction [Category 1B]
Specific Target Organ Toxicity (Single Exposure) [Category 1]
Specific Target Organ Toxicity (Single Exposure) [Category 2]
Aquatic Hazard (Acute) [Category 3]

Signal word: Danger!

Hazard Statement(s):
Toxic if swallowed or in contact with skin
Causes serious eye irritation
May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child
Harmful to aquatic life
Causes damage to: Nervous System Testis
May cause damage to organs: Testis

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 dust, fume, mist, vapors or spray. 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: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of soap and water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. 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.

[Storage] 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. Causes mild skin irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance
Components: Acrylamide Monomer [for Electrophoresis]
Percent: >98.0%(T)
CAS RN: 79-06-1
Molecular Weight: 71.08
Chemical Formula: C_3H_5NO

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.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. 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. Call a POISON CENTER or doctor/physician.

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

Symptoms/effects:

Acute: Redness.

Delayed: May cause heritable genetic damage in humans. May cause skin sensitization. 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: 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 Nitrogen 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. 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: 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 and dark place.
Store under inert gas. Store locked up.
Store away from incompatible materials such as oxidizing agents.
Light-sensitive Air-sensitive

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

ACGIH TLV(TWA):	0.03 mg/m³ (IFV) (skin)
OSHA PEL(TWA):	0.3 mg/m³ (skin)
JSOH OELs(TWA):	0.1 mg/m³ (skin)

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
Colour:	White
Odour:	Odorless
Odor threshold:	No data available
Odour threshold:	No data available

Melting point/freezing point:	86°C (187°F)	pH:	No data available
Boiling point/range:	125°C /3.3kPa (257°F)	**Vapour pressure:**	No data available.
Decomposition temperature:	No data available	**Vapour density:**	2.45
Relative density:	No data available	**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:	No data available	**Autoignition temperature:**	424°C (795°F)
Flammability(solid, gas):	No data available	**Flammability or explosive limits:**	
		Lower:	No data available
		Upper:	No data available

Solubility(ies):

[Water]	Soluble (215.5g/100mL, 30°C)
[Other solvents]	
Soluble:	Alcohols, Acetone
Insoluble:	Benzene, Heptane

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, Bases
Hazardous decomposition products:	Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

RTECS Number: AS3325000

Acute Toxicity:
orl-rat LD50:124 mg/kg
ihl-rat LC50:>5.7 ppm/6H
skn-rat LD50:400 mg/kg
ipr-rat LD50:90 mg/kg

Skin corrosion/irritation:
skn-rbt 500 mg/24H MLD

Serious eye damage/irritation:
eye-rbt 100 mg/24H MOD

Respiratory or skin sensitization:
No data available

Germ cell mutagenicity:
slt-mus-orl 16.8 mg/kg/28D
cyt-mus-lym 750 mg/L
sce-rat-orl 600 mg/kg/10D-C

Carcinogenicity:
orl-rat TDLo:1456 mg/kg/2Y-C
ipr-mus TDLo:24 mg/kg/8W-I

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

Reproductive toxicity:
orl-rat TDLo:140 mg/kg (2W pre-3W post)
orl-rat TDLo:200 mg/kg (7-16D preg)

Target organ(s):
Causes damage to: Nervous System Testis
May cause damage to organs: Testis

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	96h LC50:110 mg/L (Oncorhynchus mykiss)
Crustacea:	48h EC50:98 mg/L (Daphnia magna)
Algae:	No data available

Persistence / degradability:	70 % (NH3) (by BOD) , 83 % (by TOC) , 87 % (by HPLC)
Bioaccumulative potential(BCF):	1
Mobility in soil	
Log Pow:	-0.67
Soil adsorption (Koc):	10
Henry's Law (PaM ^{3}/mol):	1.0 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:	Packing Group:
UN2074	Acrylamide, solid	6.1 Toxic material.	III

IATA

UN number:	Proper Shipping Name:	Class or Division:	Packing Group:
UN2074	Acrylamide, solid	6.1 Toxic material.	III

IMDG

UN number:	Proper Shipping Name:	Class or Division:	Packing Group:
UN2074	Acrylamide, solid	6.1 Toxic material.	III

EmS number: F-A, S-A
Reportable Quantitiy: 5000 Pounds (2270 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:** Listed

State Regulations

State Right-to-Know
- **Massachusetts** Listed
- **New Jersey** Listed
- **Pennsylvania** Listed

California Proposition 65: Listed

Other Information

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

International Inventories

Canada: DSL On DSL
EC-No: 201-173-7

16. OTHER INFORMATION

Revision date: 04/08/2019
Revision number: 2

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.