

**SAFETY DATA SHEET**

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

**1. IDENTIFICATION**

**Product name:** N-(Hydroxymethyl)acrylamide  
**Product code:** M0574

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

Supplier: FLAT/RM A 12/F ZJ 300, 300 LOCKHART ROAD, WAN CHAI, HONG KONG

Email: sales@gang-hua.com

Emergency contact: During normal business hours (Monday-Friday 8am-5pm PST), call 852-58-090068.

After business hours, call 852-58-090068 (international).

305-809-0616. After business hours, call 1-350-

809-0616 (USA) or 1-305-809-0616

(international).

**2. HAZARD(S) IDENTIFICATION**

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

**Signal word:** Danger!

**Hazard Statement(s):** Toxic if swallowed  
Causes eye irritation  
May cause an allergic skin reaction  
May cause genetic defects  
May damage fertility or the unborn child  
May cause damage to organs: Nervous System  
May cause damage to organs through prolonged or repeated exposure: Nervous 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 dust, fume, mist, vapors or spray. 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.

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing 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 or concerned: 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:	N-(Hydroxymethyl)acrylamide
Percent:	>98.0%(T)
CAS RN:	924-42-5
Molecular Weight:	101.11
Chemical Formula:	C <sub>4</sub> H <sub>7</sub> NO <sub>2</sub>
Synonyms:	N-Methylacrylamide

### 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:	No data available

#### 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 polymerize explosively when heated or involved in a fire. Container may explode when heated. Combat fire from a sheltered position. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
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!
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Conditions for safe storage, including any incompatibilities

**Storage conditions:**

Keep container tightly closed. Store in a refrigerator.  
Store locked up.  
Store away from incompatible materials such as oxidizing agents.  
Heat-sensitive Light-sensitive  
Comply with laws.

**Packaging material:****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

**Colour:**

White - Almost white

**Odour:**

No data available

**Odor threshold:**

No data available

**Odour threshold:**

No data available

**Melting point/freezing point:**

76°C (169°F)

**pH:**

No data available

**Boiling point/range:**

277°C (531°F)

**Vapour pressure:**

No data available.

**Decomposition temperature:**

No data available

**Vapour density:**

No data available

**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:**

No data available

**Flammability(solid, gas):**

No data available

**Flammability or explosive**

No data available

**limits: Lower: Upper:**

No data available

No data available

**Solubility(ies):**

Very soluble (188g/100mL,

**[Water]**

20°C)

**[Other solvents]****Soluble:**

Alcohols

**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, Acids

**Hazardous decomposition products:**

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

**11. TOXICOLOGICAL INFORMATION**

RTECS Number: AS3600000

**Acute Toxicity:**

skn-rbt LD50:>16 g/kg

ipr-rat LD50:563 mg/kg

**Skin corrosion/irritation:**

No data available

**Serious eye damage/irritation:**

**Respiratory or skin sensitization:**

No data available

**Germ cell mutagenicity:**

mtr-mus-fbr 0.1 mg/L/21D (-S9)

spm-mus-ori 730 mg/kg/6W-C

**Carcinogenicity:** ori-mus

TDL<sub>o</sub>:12875mg/kg/103W-I

**IARC:** Group 3 (Not classifiable as **NTP:** No data available **OSHA:** No data available carcinogenic to humans).

**Reproductive toxicity:**

ori-mus TDL<sub>o</sub>:15.6 mg/kg (multigenerations)

ori-mus TDL<sub>o</sub>:15.6 mg/kg (multigenerations)

**Target organ(s):**

May cause damage to organs: Nervous System

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

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

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

**Persistence / degradability:**

16 - 109 % (by BOD) , 99 - 100 % (by TOC) , 100 % (by HPLC)

**Bioaccumulative potential(BCF):**

No data available

**Mobility in soil**

**Log Pow:** No data available

**Soil adsorption (K<sub>oc</sub>):** No data available

**Henry's Law (PaM<sup>3</sup>/mol):** 9.6 x 10<sup>-7</sup>

**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)**

<b>UN number:</b> UN2811	<b>Proper Shipping Name:</b> Toxic solids, organic, n.o.s	<b>Class or Division:</b> 6.1 Toxic material.	<b>Packing Group:</b> III
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<b>IATA</b>			
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<b>IMDG</b>			
UN UN2811 numb er:	<b>Proper Shipping Name:</b> Toxic solid, organic, n.o.s	<b>Class or Division:</b> 6.1 Toxic material.	<b>Packing Group:</b> III

**EmS number:** F-A, S-A

**15. REGULATORY INFORMATION**

**Toxic Substance Control Act (TSCA 8b.):**

**N-(Hydroxymethyl)acrylamide**

**TCI AMERICA**

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** Not Listed

**New Jersey** Listed

**Pennsylvania** Not Listed

**California Proposition 65:** Listed

**Other Information**

**NFPA Rating:**

**Health:** 3

**Flammability:** 0

**Instability:** 0

**HMIS Classification:** 3

**Health:** 0

**Flammability:** 0

**Physical:**

**International Inventories**

**Canada: DSL** On DSL

**EC-No:** 213-103-2

equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.