



## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

### Label elements

#### Emergency Overview

##### **Warning**

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction



**Appearance** Clear

**Physical state** Liquid

**Odor** Mild

#### **Precautionary Statements – Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

#### **Precautionary Statements – Response**

Specific treatment (see supplemental first aid instructions on this label)

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/attention

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse.

If skin irritation or rash occurs: Get medical advice/attention

#### **Precautionary Statements – Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Other information**

Harmful to aquatic life with long lasting effects.

Unknown acute toxicity

47% of the mixture consists of ingredient(s) of unknown toxicity



### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
2-HYDROXYETHYL METHACRYLATE	868-77-9	30 - 60	*
URETHANE METHACRYLATE	—	10 - 30	*
2,2 -(ETHYLENEDIOXY)DIETHYL DIACRYLATE	1680-21-3	1 - 5	*
ACRYLIC ACID	79-10-7	1 - 5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Get medical advice/attention if you feel unwell.
<b>Eye contact</b>	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/attention.
<b>Skin contact</b>	IF ON SKIN: Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
<b>Ingestion</b>	IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 2 for more information

#### Indications of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam

#### Unsuitable extinguishing media

None.

#### Specific hazards arising from the chemical

None in particular



**Explosion data**

**Sensitivity to Mechanical Impact**           None.  
**Sensitivity to Static Discharge**           None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-damage, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**                    Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions**            Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment**                Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**                Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

**Prevention of secondary hazards**      Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling**                Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**                    Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials**                Strong oxidizing agents

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ACRYLIC ACID 79-10-7	TWA: 2 ppm S*	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m <sup>3</sup> (vacated) S*	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup>

NIOSH IDLH Immediately Dangerous to Life or Health



**Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Controls**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin and body protection**

Wear protective gloves and protective clothing.

**Respiratory protection**

Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state**

Liquid

**Appearance**

Clear

**Odor**

Mild

**Odor threshold**

No information available

**Property**

**Values**

**pH**

6

**Melting point/freezing point**

No information available

**Boiling point/boiling range**

205°C / 401°F

**Flash point**

97°C / 207°F

**Evaporation rate**

No information available

**Flammability (solid, gas)**

No information available

**Flammability Limit in Air**

**Upper flammability limit:**

No information available

**Lower flammability limit:**

No information available

**Vapor pressure**

0.1 hPa @ 20°C (68°F)

**Vapor density**

No information available

**Relative density**

1.03

**Water solubility**

Immiscible in water

**Solubility in other solvents**

No information available

**Partition coefficient**

No information available

**Autoignition temperatures**

No information available

**Decomposition temperature**

No information available

**Kinematic viscosity**

No information available

**Dynamic viscosity**

100 mPas @ 20°C (68°F)

**Explosive properties**

No information available

**Oxidizing properties**

No information available

**Other Information**

**Softening point**

No information available

**Molecular weight**

No information available



VOC Content (%) <1%  
 Density No information available  
 Bulk density No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** No data available  
**Chemical stability** Stable under recommended storage conditions.  
**Possibility of Hazardous Reactions** None under normal processing  
**Conditions to avoid** Excessive heat  
**Incompatible materials** Strong oxidizing agents  
**Hazardous Decomposition Products** Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.  
**Eye contact** Contact with eyes may cause irritation. May cause redness and tearing of the eyes.  
**Skin contact** May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.  
**Ingestion** Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-HYDROXYETHYL METHACRYLATE 868-77-9	= 5050 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-
2,2 -(ETHYLENEDIOXY)DIETHYL DIACRYLATE 1680-21-3	= 500 mg/kg ( Rat )	= 1900 mg/kg ( Rabbit )	-
ACRYLIC ACID 79-10-7	= 193 mg/kg ( Rat ) = 33500 µg/kg ( Rat )	= 280 µL/kg ( Rabbit ) = 295 mg/kg ( Rabbit )	= 11.1 mg/L ( Rat ) 1 h = 3.6 mg/L ( Rat ) 4 h

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
ACRYLIC ACID 79-10-7	-	Group 3	-	-

### **IARC (International Agency for Research on Cancer)**

Not classified as a human carcinogen

### **Target Organ Effects**

Eyes, Respiratory system, Skin.



The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 2864 mg/kg  
 ATEmix (dermal) 2772 mg/kg  
 ATEmix (inhalation-dust/mist) 39.8 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

50% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-HYDROXYETHYL METHACRYLATE 868-77-9	-	213 - 242: 96 h Pimephales promelas mg/L LC50 flow-through 227: 96 h Pimephales promelas mg/L LC50	-
ACRYLIC ACID 79-10-7	0.17: 96 h Pseudokirchneriella subcapitata mg/L EC50 0.04: 72 h Desmodesmus subspicatus mg/L EC50	222: 96 h Brachydanio rerio mg/L LC50 semi-static	95: 48 h Daphnia magna mg/L EC50 270: 24 h Daphnia magna mg/L LC50 Static

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

Chemical Name	Partition coefficient
2-HYDROXYETHYL METHACRYLATE 868-77-9	0.47
ACRYLIC ACID 79-10-7	0.38 - 0.46

**Other adverse effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Do not reuse container.

**US EPA Waste Number**

Not applicable

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
ACRYLIC ACID 79-10-7	-	-	-	U008

## 14. TRANSPORT INFORMATION

**DOT**

Proper shipping name:

Not regulated

**IATA**

Proper shipping name:

Not regulated

**IMDG**

Proper shipping name:

Not regulated



## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Not Listed.
PICCS	Complies
AICS	Complies

### Legend:

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Phillippines Inventory of Chemicals and Chemical Substances
AICS	Australian Inventory of Chemical Substances

### US Federal Regulations

**SARA 313** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirement of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
ACRYLIC ACID - 79-10-7	1.0

### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA)(40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
ACRYLIC ACID 79-10-7	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

### US State Regulations

**California Proposition 65** This product does not contain any Proposition 65 chemicals



**U.S. State Right-to-Know Regulations**

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>
ACRYLIC ACID 79-10-7	X	X	X

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**NFPA**      **Health hazards** 2      **Flammability** 1      **Instability** 0  
**HMIS**      **Health hazards** 2      **Flammability** 1      **Physical hazards** 0      **Personal Protection** B

NFPA (National Fire Protection Association)  
HMIS (Hazardous Material Information System)

**16. OTHER INFORMATION**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

