

G.J. CHEMICAL COMPANY, INC. SAFETY DATA SHEET

1. PRODUCT IDENTIFIER

1.1 PRODUCT NAME -----> **2-Hydroxyethyl Acrylate**, Inhibited

PRODUCT NUMBERS-----> 178800 - 200-300ppm MEHQ

178810 - 360-440ppm MEHQ

178811 - 400-650ppm MEHQ

178820 - 200-500ppm MEHQ

TRADE NAME OR SYNONYMS -> 2-Hydroxyethyl Acrylate (HEA)

CAS-NO: 818-61-1

CHEMICAL FAMILY: Ester

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

RECOMMENDED USE: Manufacture and distribution of substances.

Polymerization at downstream user sites.

USES ADVISED AGAINST: No information available

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: **G.J. CHEMICAL CO., INC.**

Address: **40 VERONICA AVENUE
SOMERSET, NJ 08873**

Telephone: **1-973-589-1450**

Fax: **1-973-589-3072**

1.4 Emergency Telephone Number

Emergency Phone: **1-800-424-9300 (CHEMTREC)**

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Acute Toxicity, Dermal (Category 3), H311

Skin irritation/corrosion (Category 2), H314

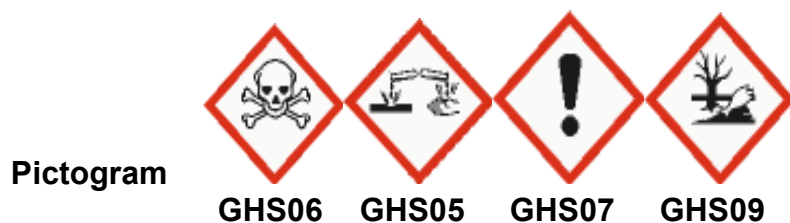
Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H412

2.2 GHS Label elements, including precautionary statements



Signal word: **DANGER**

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

Immediately call a POISON CENTER/doctor

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Storage:

P405 Store locked up

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. INGREDIENTS

3.1 SUBSTANCE:

Ingredient	CAS No.	% by WT. Range	CLASSIFICATION
2-Hydroxyethyl Acrylate	818-61-1	97.0	Acute toxicity, Oral (Category 4), H302
EC-No.212-454-9		min.	Acute toxicity, Dermal (Category 3), H311
Index-No.607-072-00-8			Skin irritation/damage (Category 2), H314
Reg.-No. 01-2119459345-34-XXXX			Serious eye damage (Category 1), H318
			Skin sensitization (Category 1), H317
			Acute aquatic toxicity (Category 1), H400
			Chronic aquatic toxicity (Category 1), H412
Monomethyl Ether of	150-76-5	200	Acute toxicity, Oral (Category 4), H302
Hydroquinone	EC-No.205-769-8	-650	Eye irritation (Category 2A), H319
Index-No.604-044-00-7		PPM	Reproductive toxicity (Category 2), H361
Reg.-No. 01-2119541813-40-XXXX			Acute aquatic toxicity (Category 3), H401
(MEHQ) (Mequinol)			Chronic aquatic toxicity (Category 1), H412

3.2 MIXTURE: Not applicable.

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

Inhalation: 2-Hydroxyethyl Acrylate

****FIRST AID- Remove from exposure to fresh air, restore breathing use oxygen if needed. Keep warm and quiet. Immediately notify a physician.**

Eye Contact (Splash): 2-Hydroxyethyl Acrylate

****FIRST AID- Immediately flush eyes with water for 15 minutes. Hold eyelids open for complete irrigation. Remove contact lenses, if worn, after initial flush. Immediately take to a physician.**

Skin Contact(Splash): 2-Hydroxyethyl Acrylate

****FIRST AID- Wash affected area with soap and large amounts of water. Remove contaminated clothing and shoes. Consult a physician if irritation persists.**

Ingestion: 2-Hydroxyethyl Acrylate

****FIRST AID- Patient should be made to drink large amounts of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician or poison control center,**

treat symptomatically.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED INGESTION:

Eye: Moderate eye irritation; damage reversible. Causes eye burns.

Skin: May cause allergic skin sensitization, an allergic reaction. Toxic in contact with skin.

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation. Can cause drowsiness and headaches. Accumulation of fluid in lungs. Symptoms can be delayed for several hours.

Ingestion: Can severely irritate the mouth, throat and stomach. Can cause dizziness, severe difficulty in breathing and nervousness.

Chronic: Overexposure may cause irritation of respiratory tract. Local irritation at the site of exposure. Allergic reaction and local irritation of the skin.

Medical Conditions Aggravated by Exposure: Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system. Skin contact may aggravate an existing dermatitis.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Specific details on antidote:

Note to physician: Observe for latent pulmonary edema.

5. FIRE FIGHTING MEASURES

Flash Point: 101°C (214°F) TCC

LEL %: 1.8 (V)

Auto-Ignition Temp: 370°C (698°F)

UEL %: NA

UNIFORM FIRE CODE: Combustible Liquid: III-B

5.1 SUITABLE EXTINGUISHING MEDIA: Foam--> x CO2--> x Dry Chemical-->
X Water-fog--> x Other-->

Unsuitable extinguishing media: Do not use waterjet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR

MIXTURE: Keep containers tightly closed. Combustible liquid; isolate from all sources of ignition. During a fire potentially toxic/irritating fumes from combustion/decomposition products may be generated. Rapid, uncontrolled polymerization can cause explosion.

CONDITIONS OF FLAMMABILITY: Flammable in the presence of a source of ignition when the temperature is above the flash point.

HAZARDOUS COMBUSTION PRODUCTS: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, carbon oxides, nitrogen oxides and other unidentified organic compounds evolve when this material undergoes combustion.

5.3 ADVICE FOR FIREFIGHTERS: Shut off source. Keep unnecessary people away; isolate hazard area and deny entry. Avoid breathing vapors, stay upwind. Do not spray pool fires directly. A solid stream of water or foam directed into hot burning liquid can cause frothing. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Cool containers with waterfog from as far a distance as possible. Wear NIOSH/MSHA approved self-contained breathing apparatus (SCBA) for confined spaces. Use full fire-fighting protective clothing. If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Combustible liquid; Eliminate ignition sources in the vicinity of the spill or released vapor. Immediately evacuate all nonessential people. Verify that responders are properly trained and wearing appropriate respiratory equipment and fire resistant protective clothing during cleanup operations.

6.2 ENVIRONMENTAL PRECAUTIONS:

Keep out of water sources, drains and sewers. Do not flush into surface water or sanitary sewer system.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Methods for cleanup and containment:

Use explosion proof equipment and equipment that can withstand the corrosive nature of this product. Shut off valves, contain spill, keep out of water sources and sewers, for smaller spills add non-flammable absorbent in spill area. For large spills use foam on spill to minimize vapors clean up by vacuuming then using non-flammable absorbent.

Methods for disposal:

Place all saturated absorbent, using non-sparking tools, in an approved container for disposal. Minimize breathing vapors and skin contact, ventilate confined areas, open all windows and doors, assure conformity with applicable government regulations. Spontaneous polymerization may occur if mixed with incompatible materials.

6.4 REFERENCE TO OTHER SECTIONS: See Sections 8 and 13.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING: This material presents a fire hazard. Invisible vapor spreads easily and can be set on fire by many sources, such as pilot lights, welding equipment, and electrical motors and switches. Vapor is heavier than air and can travel considerable distance to a source of ignition and flash back. Avoid breathing vapors in top of shipping container. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid work practices that may release volatile components in the atmosphere. Avoid contaminating soil or releasing material into sewage and drainage systems. Use non-sparking tools to open or close containers.

Advice on general occupational hygiene:

Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs. When using do not smoke.

STATIC HAZARD: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not be sufficient. For more information refer to OSHA Standard 29CFR 1910.106 “Flammable and Combustible Liquids” and National Fire Protection Association (NFPA 77) “Recommended Practice on Static Electricity”.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Follow maximum allowed pile heights specified in the BOCA codes or the NFPA manual. Local fire authorities should be notified for storage of this material in any quantity. Local permits are required for storage in warehouse quantities. Recommended storage temperature: 2°C - 8°C. Store large quantities only in cool, dry areas in buildings designed to comply with OSHA 1910.106. Keep containers tight and upright to prevent leakage. Do not contact with oxidizing materials. Keep containers closed when not in use. Do not take internally. Store away from incompatible materials. Do not store in direct sunlight. This product should never be stored under an inert gas atmosphere, but should always be stored under an atmosphere containing 5 to 21% volume of oxygen.

CONTAINER WARNINGS: Containers should be Bonded and Grounded when pouring. Avoid free fall of liquid in excess of a few inches. Empty containers release residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, or expose such containers to heat, sparks, static electricity or other sources of ignition. Do not attempt to clean. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner.

7.3 SPECIFIC END USES: Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROL (PERSONAL PROTECTION)

8.1 CONTROL PARAMETERS:

Ingredient	CAS No.	% by WT. Range	Exposure Limits
2-Hydroxyethyl Acrylate EC-No.212-454-9 Index-No.607-072-00-8 Reg.-No. 01-2119459345-34-XXXX	818-61-1	97.0min.	Not Established
Monomethyl Ether of Hydroquinone EC-No.205-769-8 Index-No.604-044-00-7 Reg.-No. 01-2119541813-40-XXXX (MEHQ) (Mequinol)	150-76-5	200-650ppm	5mg/m3

Key: (PEL) = Permissible Exposure Limit OSHA
(TLV) = Threshold Limit Value OSHA & ACGIH
(STEL) = Short Term Exposure Limit ACGIH
(WEEL) = USA. Workplace Environmental Exposure Levels
(TWA) = Time Weighted Average
CAS = Chemical Abstracts Registry Number
IDLH = Immediate Danger to Life and Health
N.E. =None Established

8.2 EXPOSURE CONTROLS

EXPOSURE GUIDELINES: Consider the potential hazards of this material (Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended.

ENGINEERING CONTROLS: Provide general dilution or local exhaust ventilation in volume and pattern to keep concentrations within permitted exposure limits. All areas should be ventilated in accordance with OSHA Regulation 29 CFR Part 1910. Explosion proof motors should be used in mechanical ventilation.

RESPIRATORY PROTECTION: The specific respirator selected must be based on contamination levels found in the work place, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA):

Use a NIOSH/MSHA approved organic vapor cartridge respirator under normal conditions of handling. In confined spaces or should irritation occur use a NIOSH/MSHA approved self-contained breathing apparatus. There are no established exposure limits.

BODY CLOTHING: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged contact with this substance. Use chemical resistant apron or other impervious clothing. Remove and wash contaminated clothing before reuse.

SKIN PROTECTION: Employee must wear appropriate protective gloves to prevent contact with this substance.

Full contact

Material: Chloroprene

Minimum layer thickness: 0.6 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 30 min

HYGIENE: Use good personal hygiene practices, wash hands before eating, drinking, smoking or using toilet facilities.

EYE/FACE PROTECTION: Use safety eyewear with splash-guards or face shield. Emergency shower and eyewash should be easily accessible to the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

2-Hydroxyethyl Acrylate 818-61-1

Appearance-----> Clear liquid
Color-----> Colorless
Odor-----> No data available
Odor Threshold-----> No data available
pH-----> No data available
Molecular Weight-----> 116.12amu
Melting/Freezing Point-----> < -60 °C (< -76 °F)
Boiling Range -----> 90 - 92 °C (194 - 198 °F)
Specific Gravity-----> 1.106 @20°C
Vapor Pressure-----> <0.1mmHg@20°C (68°F)
Vapor Density (air=1)-----> No data available
Water Solubility-----> 1000g/L @ 20°C (68°F)

Partition Coefficient n-Octanol/Water-> log Pow: -0.17 @ 25°C (77°F)

Evaporation Rate (Butyl Acetate=1)----> <0.02

Flash Point-----> 101°C (214 °F)

Upper Flammability Limit-----> No data available

Lower Flammability Limit-----> 1.8% (V)

Auto-Ignition Temperature-----> 370°C (698°F)

Decomposition Temperature-----> No Data Available

Viscosity-----> 5.2cSt @ 15°C

Explosive Properties-----> No Data Available

Oxidizing Properties-----> No Data Available

9.2 Other Information: No Data Available

10. STABILITY AND REACTIVITY INFORMATION

10.1 REACTIVITY: No applicable information available

10.2 CHEMICAL STABILITY: Unstable () Stable (X)

The stability of the product depends upon the availability of both dissolved oxygen and MEHQ inhibitor. The presence of oxygen is necessary for the MEHQ to function effectively.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: Vapors may form explosive mixtures with air.

HAZARDOUS POLYMERIZATION: May occur (X) Will not occur ()

Hazardous polymerization can occur. Uncontrolled polymerization can cause rapid evolution of heat and increased pressure which can result in violent rupture of storage vessels or containers.

The effectiveness of the inhibitor is dependent on the presence of oxygen.

10.4 CONDITIONS TO AVOID: Avoid storage at product temperatures above 100°F. Avoid sunlight, x-ray, or ultra violet radiation. Heat, Sparks, Pilot Lights, Static Electricity, and Open Flame.

10.5 INCOMPATIBLE MATERIALS: Strong oxidants such as liquid chlorine, oxygen, sodium hypochlorite, inorganic acids; e.g. Peroxides, t-butyl peroxide and hydrogen peroxide.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: Fumes, Smoke, Carbon Monoxide, Aldehydes and other decomposition products where combustion is not complete.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

Routes of Entry: Inhalation--> x Skin--> x Ingestion--> x

ACUTE HEALTH EFFECTS:

Effects of overexposure:

Eye> Moderate eye irritation; damage reversible. Causes eye burns.

Skin> May cause allergic skin sensitization, an allergic reaction. Toxic in contact with skin.

Inhalation> Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation. Can cause drowsiness and headaches. Accumulation of fluid in lungs. Symptoms can be delayed for several hours.

Ingestion> Can severely irritate the mouth, throat and stomach. Can cause dizziness, severe difficulty in breathing and nervousness.

Chronic: Overexposure may cause irritation of respiratory tract. Local irritation at the site of exposure. Allergic reaction and local irritation of the skin.

Medical Conditions Aggravated by Exposure> Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system. Skin contact may aggravate an existing dermatitis.

ACUTE TOXICITY:

The effects of overexposure shown in Section II are based on acute toxicity profiles. Typical values are:

Ingredient	Oral LD50 (Rat)	Skin LD50(Rabbit)	Inhalation LC50
2-Hydroxyethyl Acrylate	960.5mg/kg		
Mequinol (MEHQ)	1370mg/kg	2000mg/kg	N.D.

SKIN CORROSION/IRRITATION: Skin - Rabbit Result: Causes burns.

SERIOUS EYE DAMAGE/EYE IRRITATION: Eyes - Rabbit Result: Corrosive

RESPIRATORY OR SKIN SENSITIZATION: Maximization Test - Guinea pig Result: May cause sensitization by skin contact

MUTAGENIC EFFECTS: Salmonella typhimurium Result: negative
Rat - male and female Result: negative

CARCINOGEN STATUS:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

REPRODUCTIVE TOXICITY: No data available

Specific target organ toxicity (STOT-SE) - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity (STOT-RE) - repeated exposure (Globally Harmonized System): no data available

ASPIRATION HAZARD: No data available

11.2 ADDITIONAL INFORMATION: No data available on Teratogenicity, Neurotoxicity or Epidemiology.

12. ECOLOGICAL INFORMATION

DANGEROUS TO AQUATIC LIFE IN HIGH CONCENTRATIONS

May be dangerous if it enters water intakes.

Notify local health and pollution control officials.

Notify operators of nearby water intakes.

12.1 AQUATIC TOXICITY:

Toxicity to fish –

LC50 Pimephales promelas (fathead minnow) - 4.8 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates

LC50 Daphnia magna (Water flea) - 0.78 mg/l - 48 h

12.2 PERSISTENCE AND DEGRADABILITY: Biotic/Aerobic - Exposure time 28 d
Result: 79 % - Readily biodegradable. (OECD Test Guideline 301B)

12.3 BIOACCUMULATIVE POTENTIAL: The octanol/water partition coefficient is
–log Pow 0.17

Bio-concentration Factor (BCF): No data available.

12.4 MOBILITY IN SOIL: No data available.

12.5 RESULTS OF PBT AND vPvB :

PBT assessment results: This substance is not classified as PBT or vPvB.

12.6 OTHER ADVERSE EFFECTS: Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly it is the responsibility of the user to determine the proper storage, transportation,

treatment, and or disposal methodologies for spent materials and residues at time of disposition. Dispose in accordance with all applicable disposal regulations. Incinerate under controlled conditions in a permitted facility.

CONTAMINATED PACKAGING: Dispose of as unused product

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

Land Transport (DOT)

14.1 USDOT ID Number-----> UN2922
14.2 USDOT Shipping Name-----> Corrosive Liquids, Toxic, n.o.s.
(2-Hydroxyethyl Acrylate)
14.3 USDOT Hazard Classification-----> 8 (Corrosive Liquid)
USDOT Label Codes-----> 8, 6.1
14.4 USDOT Package Code-----> II
14.5 Marine Pollutant-----> No
14.6 Special precautions for user-----> Yes
Emergency Response Guide-----> 154

Sea Transport (IMDG)

14.1 ID Number-----> UN2922
14.2 Proper shipping name-----> CORROSIVE LIQUIDS, TOXIC, N.O.S.
(2-Hydroxyethyl acrylate)
14.3 Hazard Classification-----> 8, 6.1 (Corrosive Liquid, Toxic)
Label Codes-----> 8, 6.1
14.4 Package Code-----> II
14.5 Marine Pollutant-----> Yes
14.6 Special precautions for user-----> Yes
EMS-Number-----> F-A, S-B

Air Transport (IATA)

14.1 ID Number-----> UN2922
14.2 Proper shipping name-----> Corrosive liquids, toxic, n.o.s.
(2-Hydroxyethyl acrylate)
14.3 Hazard Classification-----> 8, 6.1 (Corrosive Liquid, Toxic)
Label Codes-----> 8, 6.1
14.4 Package Code-----> II
14.5 Environmental hazard-----> No
14.6 Special precautions for user-----> Yes

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

SARA TITLE III (Superfund Amendment and Reauthorization Act)

SECTION 302 AND 304: Extremely Hazardous Substance List (40 CFR 355) - Not Listed

SECTION 313: Toxic Chemicals Listing (40 CFR 372.65) - Not Listed

CAS 141-3-2

SECTION 311/312: Hazard Categorization (40 CFR 370) - Acute Health Hazard

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)

SECTION 102(A) Hazardous Substances (40 CFR 302.4) - Not Listed

Reportable Quantity - None

SECTION 101(14) Reportable Quantity: None

Massachusetts Right to Know Components

2-Hydroxyethyl acrylate CAS-No. 818-61-1

Mequinol CAS-No.150-76-5

Pennsylvania Right to Know Components

2-Hydroxyethyl acrylate CAS-No. 818-61-1

Mequinol CAS-No.150-76-5

New Jersey Right to Know Components

2-Hydroxyethyl acrylate CAS-No. 818-61-1

Mequinol CAS-No.150-76-5

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA (Toxic Substance Control Act)

2-Hydroxyethyl acrylate CAS-No. 818-61-1 and Mequinol CAS-No.150-76-5 are listed on the TSCA Inventory.

2-Hydroxyethyl acrylate 818-61-1

FDA Indirect Food Contact Approvals:

21CFR175.105, 21CFR176.170, 21CFR176.180, FDA list of indirect additives used in food contact substances.

International Inventories:

<u>Country or Region</u>	<u>Inventory Name</u>	<u>On inventory yes/no</u>
<u>Australia</u>	Australian Inventory of Chemical Substances	Yes
<u>Canada</u>	Domestic Substances List (DSL)	Yes
<u>Canada</u>	Non-Domestic Substances List (NDSL)	No
<u>China</u>	Inventory of Existing Chemical Substances in China (IECSC)	Yes
<u>Europe</u>	European Inventory of Existing Commercial Chemicals Substances (EINECS)	Yes
<u>Europe</u>	European List of Notified Chemical Substances (ELINCS)	No
<u>Japan</u>	Inventory of Existing and New Chemical Substances (ENCS)	Yes

<u>Japan</u>	Industrial Safety & Health Law Inventory (ISHL)	Yes
<u>Korea</u>	Existing Chemicals List (ECL)	Yes
<u>Mexico</u>	National Inventory of Chemical Substances (INSQ)	Yes
<u>New Zealand</u>	New Zealand Inventory	Yes
<u>Philippines</u>	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
<u>Switzerland</u>	Inventory of Notified New Substances (CHINV)	Yes
<u>Taiwan</u>	National Existing Chemical Inventory (NECI)	Yes
<u>United States & Puerto Rico</u>	Toxic Substances Control Act Inventory	Yes

15.2 CHEMICAL SAFETY ASSESSMENT: A chemical safety assessment has been carried out for this substance.

16. OTHER INFORMATION:

HMIS (Hazardous Materials Identification System)

Hazard Rating:

4-Extreme

3-High

2-Moderate

1-Slight

0-Insignificant

NFPA RATINGS (SCALE 0-4): Health=3 Fire=1 Reactivity=0
HMIS RATINGS (SCALE 0-4): Health=3 Fire=1 Reactivity=0 PPE=X

Hazard statement(s) from Section 2 and 3:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Date of preparation-> January 8, 2007

Revision Number----> 1.7

Revision Content----> General update all sections

Revision Date-----> September 17, 2018

Prepared by-----> T.G. Fenstermaker, Jr.

Acronyms:

ACGIH - American Conference of Governmental Industrial Hygienists
 AIHA - American Industrial Hygiene Association
 ANSI - American National Standards Institute
 API - American Petroleum Institute
 CERCLA - Comprehensive Emergency Response, Compensation, and Liability Act
 DOT - U.S. Department of Transportation
 EPA - U.S. Environmental Protection Agency
 HMIS - Hazardous Materials Information System
 IARC - International Agency For Research On Cancer

MSHA	-	Mine Safety and Health Administration
NFPA	-	National Fire Protection Association
NIOSH	-	National Institute of Occupational Safety and Health
NOIC	-	Notice of Intended Change (Proposed change to ACGIH TLV)
NTP	-	National Toxicology Program
OPA	-	Oil Pollution Act of 1990
OSHA	-	U.S. Occupational Safety & Health Administration
PEL	-	Permissible Exposure Limit (OSHA)
RCRA	-	Resource Conservation and Recovery Act
REL	-	Recommended Exposure Limit (NIOSH)
SARA	-	Superfund Amendments and Reauthorization Act of 1986 Title III
SCBA	-	Self-Contained Breathing Apparatus
STEL	-	Short-Term Exposure Limit (generally 15 minutes)
TLV	-	Threshold Limit Value
TSCA	-	Toxic Substances Control Act
TWA	-	Time Weighted Average (8hr.)
WHMIS	-	Canadian Workplace Hazardous Materials Information System

This information is furnished without warranty, representation, inducement of license of any kind, except that it is accurate to the best of G.J. Chemical's knowledge, or obtained from sources believed by G.J. Chemical Co., Inc. to be accurate, and G.J. Chemical Co., Inc. does not assume any legal responsibility for use or reliance upon same. Users are encouraged to conduct their own tests. Before using any product, read its label. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.