

Company Proprietary:

95% of the active Aqua Loc Resin LV product is

2-(Dimethylamino)ethyl methacrylate.

The balance is company proprietary. This Aqua Loc Resin LV is diluted in water by more than 50%.

Chemical Product and Company Identification

MSDS Name:

2-(Dimethylamino)ethyl methacrylate

Synonyms: DMAEMA.

Company Identification:

CGI International, LC
213 Linkside Circle
Ponte Vedra Beach, FL 32082
Telephone: 407-257-0165
Toll Free: 877-684-9650

For information

in North America, call:

407-257-0165

Toll Free: 877-684-9650

For emergencies in the US, call

CHEMTREC: 800-424-9300

Composition, Information on Ingredients

CAS#: 2867-47-2

Chemical Name:

2-(Dimethylamino)ethyl methacrylate

EINECS/ELINCS: 220-688-8

Hazards Identification - PURE FORM

EMERGENCY OVERVIEW

Appearance: clear colorless to almost colorless. Flash Point: 70°C. Moisture sensitive. Mutagen.

Danger! Harmful if swallowed or absorbed through the skin.

Target Organs: Central nervous system, eyes, skin.

Potential Health Effects (In Pure Form)

NOTE: The Health Effects stated below are only applicable in 98% pure concentration.

However, the Aqua Loc Resin LV is diluted with water by more than 50%.

Eye: Causes eye burns.

Lachrymator (substance which increases the flow of tears).

Skin: May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Causes severe skin irritation and possible burns.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Causes respiratory tract irritation. May be fatal if exposed to high concentrations.

Chronic: Chronic exposure may cause effects similar to those of acute exposure.

First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Skin: In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical aid if symptoms occur. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: POISON material. If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Fire Fighting Measures- PURE FORM

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Fire or excessive heat may result in violent rupture of the container due to bulk polymerization. Combustible liquid and vapor.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: 158°F

Auto Ignition Temperature: 491°F

Explosion Limits, Lower:
1.20vol%

Upper: .00 vol %

NFPA Rating: (estimated)

Health: 3; Flammability: 2;

Instability: 2

Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in **Exposure Controls, Personal Protection**.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Wash empty containers with water and flush interior of container with water. Keep partially used containers tightly closed. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

Storage: Keep away from heat, sparks, and flame. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. (Store below 104°F in opaque container).

Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name:

2-(Dimethylamino)ethyl methacrylate

ACGIH: none listed

NIOSH: none listed

OSHA - Final PELs: none listed

OSHA Vacated PELs:

2-(Dimethylamino)ethyl methacrylate: No OSHA Vacated PELs are listed for this chemical. Personal Protective Equipment

Eyes: Wear protective eye covers (protect eyes).

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Physical and Chemical Properties (Stabilized)

Physical State: Liquid

Appearance: amber or green color.

Odor: amine-like

pH: Not available.

Vapor Pressure:

13.3 mbar @ 167°F

Vapor Density: 5.4 (air = 1)

Evaporation Rate: Not available.

Viscosity: 1.6 mPa.s 68°F

Boiling Point: 360-378°F

Freezing/Melting Point: -22°F

Decomposition Temperature:

Not available.

Solubility: Soluble.

Specific Gravity/Density:

0.933 g/cm³ @ 77°F

Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, and excess heat.

Incompatibilities with Other

Materials: Strong acids, strong bases, strong oxidizing agents, strong reducing agents, heat and direct sunlight.

Hazardous Decomposition

Products: Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

Toxicological Information

RTECS#:

CAS# 2867-47-2: OZ4200000

CAS # 7732-18-5: ZC0110000

LD50/LC50:

CAS# 2867-47-2:

Inhalation, mouse:

LC50 = 1800 mg/m³/2H;

Inhalation, rat:

LC50 = 620 mg/m³/4H;

Oral, rat: LD50 = 1751 mg/kg;

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg;

Carcinogenicity:

CAS# 2867-47-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

CAS# 7732-18-5: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

No information available.

Mutagenicity:

No information available.

Neurotoxicity:

No information available.

Other Studies: See actual entry in RTECS for complete information.

Ecological Information

Ecotoxicity:

No information available.

Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration of Contaminants:

None listed.

RCRA D-Series Chronic Toxicity

Reference Levels: None Listed.

RCRA F-Series: None listed.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Transport Information

US DOT

Shipping Name:

2-DIMETHYLAMINOETHYL
METHACRYLATE

Hazard Class: 6.1

UN Number: UN2522

Packing Group: II

Canada TDG

Shipping Name:

2-DIMETHYLAMINOETHYL
METHACRYLATE

Hazard Class: 6.1

UN Number: UN2522

Packing Group: II

Regulatory Information

US FEDERAL

TSCA

CAS# 2867-47-2 is listed on the TSCA inventory.

CAS# 7732-18-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 2867-47-2: acute, flammable.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 2867-47-2 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 21/22 Harmful in contact with skin and if swallowed.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitization by skin contact.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

S 28A After contact with skin, wash immediately with plenty of water.

WGK (Water Danger/Protection)

CAS# 2867-47-2: 1

Canada - DSL/NDSL

CAS# 2867-47-2 is listed on Canada's DSL / NDSL List.

Canada - WHMIS

This product does not have a WHMIS classification.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 2867-47-2 is listed on the Canadian Ingredient Disclosure List.

Additional Information

MSDS Creation Date: 2/01/1996

Revision #1 Date: 3/10/2007

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall CGI International be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if CGI International has been advised of the possibility of such damages.