
SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Koldmount Liquid Hardener
Product Number: AM1201, AM1203, AM1204, AM1205
Synonyms: Methyl Methacrylate Monomer
Chemical Name: Methyl Methacrylate Monomer
CAS Number: Blend

Company Identification

Alpha Resources Inc.

3090 Johnson Rd.

Stevensville, MI 49127

(518)-434-3147 (For product information)

(800)-424-9300 (For emergencies)

1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: Flammable liquid and vapor. Prolonged exposure may cause allergic skin reaction, kidney damage, liver damage. Repeated or prolonged exposure can cause the following: headache, nausea, drowsiness, unconsciousness.

GHS Classification:

Acute Toxicity, Inhalation - Category 4

Serious Eye Damage/Eye Irritation - Category 2

Skin Corrosion/Irritation - Category 2

Respiratory or skin Sensitization - Category 1

Target Organ Systemic Toxicity - Repeated Exposure, Category 2

Flammable liquids-Category 3

Target Organ Systemic Toxicity-Single Exposure Category 3

GHS Hazard Symbols:

Flammable, Irritant, Health Hazard



EYE:

Can cause eye irritation.

SKIN:

Can cause skin irritation.

INHALATION:

Can cause respiratory irritation.

INGESTION:

May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE:

Headaches, nausea, staggering gait, confusion, drowsiness and unconsciousness.

TARGET ORGAN:

Prolonged exposure may cause allergic skin reaction, kidney damage, and liver damage. Repeated or prolonged exposure can cause the following: headache, nausea, drowsiness, unconsciousness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
METHYL METHACRYLATE	90.0 - 100.0 %	80-62-6
DIMETHYL-P-TOLUIDINE	0.0 - 10.0 %	99-97-8

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains materials that are chronic, fire hazards.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes, holding the eyelids apart. Get immediate medical attention.

SKIN CONTACT FIRST AID:

Immediately wash skin with soap and plenty of water. Seek medical attention if irritation develops. Launder contaminated clothing before re-use.

INHALATION FIRST AID:

Remove to fresh air. If breathing is difficult, have qualified personnel give oxygen. Seek immediate medical attention.

INGESTION FIRST AID:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, immediately give 2 glasses of water. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: 16 C (60.8 F) Auto-ignition Temperature: 411 C (771.8 F)

FLAMMABLE LIMITS IN AIR

LEL: 1.8 %

UEL: N/A

EXTINGUISHING MEDIA:

Chemical foam, carbon dioxide, dry chemical.

FIRE & EXPLOSION HAZARDS:

Vapors can travel to a source of ignition and flashback. Heat can cause polymerization. Heated containers can explode.

FIRE FIGHTING INSTRUCTIONS:

Do not enter fire area without proper protection. Fight fire from a safe distance or protected location. Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Water may be ineffective unless used as a fine spray or fog. Use water to cool fire-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

INITIAL CONTAINMENT:

Absorb spills with inert material. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Contaminated monomer may be unstable. Spills on porous surfaces can contaminate groundwater.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Keep away from heat, sparks and flames. Ground container when pouring. Do not expose to direct sunlight.

STORAGE PRECAUTIONS:

Do not store under oxygen-free environment. Leave air space over liquid surface in all containers introducing air periodically if stored more than 6 months. Containers hazardous when empty.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE / FACE PROTECTION REQUIREMENTS:

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION REQUIREMENTS:

Butyl rubber gloves.

RESPIRATORY PROTECTION REQUIREMENTS:

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

EXPOSURE GUIDELINES:

METHYL METHACRYLATE

OSHA PEL: 100 ppm, 410 mg/m³

OSHA TWA: 100 ppm, 410 mg/m³

DIMETHYL P TOLUIDINE OSHA

PEL: 10 mg/m³

OSHA TWA: 2.5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOR:	Clear
ODOR:	Fruity
BOILING POINT:	101 C
VAPOR DENSITY:	3.5 (Air = 1)
SOLUBILITY IN WATER:	Moderate
SPECIFIC GRAVITY:	0.94 (Water = 1)
MELTING/FREEZING POINT:	-48 C
VISCOSITY:	0.53 CPS
EVAPORATION RATE:	(BUAC=1) 3.1

10. STABILITY AND REACTIVITY

POLYMERIZATION:

Excessive aging, heat, contamination with polymerization catalysts, oxygen-free atmosphere, inhibitor depletion or ultraviolet light (sunlight) may cause polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with acids, bases, oxidizing agents, reducing agents, UV light.

DECOMPOSITION:

Carbon monoxide, carbon dioxide and irritating smoke and fumes.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

Liquid and vapor can cause moderate irritation (tears, blurred vision and redness).

SKIN EFFECTS:

May cause skin irritation with allergic skin reaction.(skin sensitization).

ACUTE ORAL EFFECTS:

Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

ACUTE INHALATION EFFECTS:

May cause respiratory tract irritation with coughing, mucous production and shortness of breath. High concentration is irritating to the respiratory tract and may cause dizziness, headache and anesthetic effects.

CHRONIC EFFECTS /:

Prolonged or repeated overexposure may cause skin irritation or sensitization in some individuals, as well as kidney, lung, liver and heart damage.

METHYL METHACRYLATE

Test Code: LC50

Species: Rat

Results: 4h:7093 ppm

12. ECOLOGICAL INFORMATION

METHYL METHACRYLATE

Test Code: Aquatic Toxicity
Description: LC50 96h;
Species: Fathead minnow
Results: 130mg/L

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Dispose of in accordance with Federal, State and Local regulations.

14. TRANSPORT INFORMATION

PRODUCT LABEL:	Koldmount Liquid
D.O.T. SHIPPING NAME:	Methyl Methacrylate, Inhibited
D.O.T. HAZARD CLASS:	3, PG II
UN NUMBER:	1247

15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger:

Highly Flammable (F), Harmful (Xn), Irritant (Xi), Dangerous For The Environment (N)



R-Phrases:

R10 - Flammable.
R20/21/22 - Harmful by inhalation, in contact with skin, and if swallowed.
R36 - Irritating to eyes.
R36/37/38 - Irritating to eyes, respiratory system, and skin.

WHMIS Hazard Symbols:

Class D2 - Materials Causing Other Toxic Effects

Canadian Disclosure List

METHYL METHACRYLATE (80-62-6)

SARA Title III - Section 313

METHYL METHACRYLATE (80-62-6)

CERCLA Hazardous Substances

METHYL METHACRYLATE (80-62-6) -- RQ 1000 lb

RCRA Hazardous Substances

METHYL METHACRYLATE (80-62-6) -- RCRA Code: U162

Title V

METHYL METHACRYLATE (80-62-6)

SC Toxic Air Pollutants List

METHYL METHACRYLATE (80-62-6)

16. OTHER INFORMATION

HMIS Rating:

Health - 2
Flammability - 2
Reactivity - 2

The data and information as stated was furnished by the manufacturer/vendor/supplier of this product. Alpha Resources Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.