

Alpha Resources LLC

Safety Data Sheet Issue Date: 08/11/2021

SECTION 1 Identification

Product Identifier

KOLDMOUNT LIQUID
Not Applicable
AM1201, AM1204, AM1205
Not Applicable
Not Applicable

Company Information

Registered Company Name	Alpha Resources LLC
Address	3090 Johnson Road, Stevensville, MI 49127 United States
Telephone	(800) 833-3083
Fax	(269) 465-3629
Website	https://www.alpharesources.com
Email	sales@alpharesources.com

Emergency Phone Number

Association / Organization	CHEMTREC
Emergency Telephone No.	(800) 424-9300

SECTION 2 Hazard(s) Identification

Classification of the Substance or Mixture

NFPA 704 Diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health, Red = Fire, Yellow = Reactivity, White = Special (Oxidizer or water reactive substances)

Classification	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Skin Sensitizer Category
	1, Eye Irritation Category 2A, Acute Toxicity (Inhalation) Category 3, Specific target organ
	toxicity – single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity
	- single exposure Category 3 (narcotic effects), Specific target organ toxicity - repeated
	exposure Category 2, Flammable Liquid Category 2

Label Elements



Hazard Statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction



H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H225	Highly flammable liquid and vapor

Hazard(s) not Otherwise Classified

Not applicable

Precautionary Statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P260	Do not breathe mist/vapors/spray
P271	Use in a well-ventilated area
P280	Wear protective gloves, protective clothing, eye protection and face protection
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash all exposed external body areas 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

Precautionary Statement(s) Response

-				
P362	Take off contaminated clothing and wash before reuse			
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction			
P302+P352	IF ON SKIN: Wash with plenty of water			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present			
	and easy to do, continue rinsing			
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing			
P311	Call a POISON CENTER or doctor/physician			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention			
P337+P313	If eye irritation persists: Get medical advice/attention			
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell			
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing – Rinse skin with			
	water/shower			
P330	Rinse mouth			

Precautionary Statement(s) Storage

P405	Store locked up
P403+P235	Store in a well-ventilated place – Keep cool

Precautionary Statement(s) Disposal

P501	Dispose of contents/container to authorized hazardous or special waste collection point in
	accordance with any local regulation.

SECTION 3 Composition / Information on Ingredients

Mixtures



CAS No	%[weight]	Name
80-62-6	>90	Methyl methacrylate
99-97-8	0-10	N,N-dimethyl-p-toluidine

SECTION 4 First-Aid Measures

Eye Contact	If this product comes in contact with the eyes:
	Immediately hold eyelids apart and flush the eye continuously with running water.
	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
	Continue flushing until advised to stop by the Poison Center or a doctor, or for at least 15 minutes.
	Transport to hospital or doctor without delay.
Skin Contact	If skin or hair contact occurs:
	Immediately remove all contaminated clothing, including footwear.
	Flush skin and hair with running water (and soap if available).
	Seek medical attention in event of irritation.
Inhalation	If fumes or combustion products are inhaled remove from contaminated area.
	Lay patient down, keep warm and rested.
	Apply artificial respiration if not breathing. Perform CPR if necessary.
	Transport to hospital or doctor without delay.
Ingestion	If swallowed, do NOT induce vomiting.
	If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
	Give water to rinse out mouth, then provide liquid slowly and as much as patient can comfortably drink.
	Seek medical advice.
	Avoid giving milk, oil, or alcohol.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. Treat symptomatically.

SECTION 5 Fire-Fighting Measures

Extinguishing Media

Foam, dry chemical, CO2, or water spray.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidizing agents, i.e., nitrates, oxidizing acids, chlorine bleaches, pool
	chlorine, etc., as ignition may result.

Special protective equipment and precautions for fire-fighters

	· · · · · · · · · · · · · · · · · · ·			
Fire Fighting	Alert fire department and tell them location and nature of hazard.			
	Wear breathing apparatus plus protective gloves.			
	Prevent, by any means available, spillage from entering drains or water courses.			
	Fight fire from a safe distance, with adequate cover.			
	Use water delivered as a fine spray to control fire and cool adjacent area.			
	Cool fire exposed containers with water spray from a protected location.			
Fire / Explosion Hazard	Liquid and vapor are highly flammable.			
	Severe fire hazard when exposed to heat, flame, and/or oxidizers.			



- > Vapor may travel a considerable distance to source of ignition.
- > Heating may cause expansion or decomposition leading to violent rupture of containers.
- > Combustion products include carbon dioxide, nitrogen oxides, and other pyrolysis products typical of burning organic material.
- > May emit toxic fumes of carbon monoxide.
- > May emit clouds of acrid smoke.

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Remove all ignition sources.
	Clean up all spills immediately.
	Avoid breathing vapors and contact with skin and eyes.
	> Control personal contact with the substance, by using protective equipment.
	> Contain and absorb small quantities with vermiculite or other absorbent material.
	≻ Wipe up.
	Collect residues in a flammable waste container.
Major Spills	May be violently or explosively reactive.
	Wear breathing apparatus plus protective gloves.
	Prevent, by any means available, spillage from entering drains or water courses.
	No smoking, naked lights, or ignition sources.
	Increase ventilation.
	Stop leak if safe to do so.
	Water spray or fog may be used to disperse / absorb vapor.
	Contain spill with sand, earth, or vermiculite.
	Use only spark-free shovels and explosion proof equipment.
	Collect recoverable product into labelled containers for recycling.
	Absorb remaining product with sand, earth, or vermiculite.
	Collect solid residues and seal in labelled drums for disposal.
	Wash area and prevent runoff into drains.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and Storage

Precautions for safe handling

Safe Handling	> Do NOT use localized heat sources such as band heaters to heat/melt product.
	Do NOT use steam.
	Do NOT overheat – this may compromise product quality and/or result in an uncontrolled hazardous polymerization.
	Store product indoors at temperatures greater than 0°C and below 38°C.
	Store in tightly closed containers in a properly vented storage area away from heat, sparks, open flame, strong oxidizers, radiation, and other initiators.
	Prevent contamination by foreign materials or moisture contact.
	Use only non-sparking tools.
	Containers, even those that have been emptied, may contain explosive vapors.
	DO NOT allow clothing wet with material to stay in contact with skin.
	Avoid all personal contact, including inhalation.
	Wear protective clothing when risk of exposure occurs.
	Use in a well-ventilated area.
	Avoid smoking, naked lights, heat, or ignition sources.



	When handling, do NOT eat, drink, or smoke.	
	Vapor may ignite on pumping or pouring due to static electricity.	
	DO NOT use plastic buckets.	
	Keep containers securely sealed.	
	Avoid contact with incompatible materials.	
	Always wash hands with soap and water after handling.	
	Work clothes should be laundered separately.	
Other Information	Polymerization may occur slowly at room temperature.	
	Storage requires stabilizing inhibitor content and dissolved oxygen content to be monitored.	
	Do NOT overfill containers to maintain free head space above product.	
	➢ Store below 38°C.	
	Store in original containers in approved flame-proof area.	
	Store away from incompatible materials in a cool, dry, well-ventilated area.	
	Protect containers against physical damage and check regularly for leaks.	

Conditions for safe storage, including any incompatibilities

Suitable Container	r Section Provide the section of	
	Plastic containers may only be used if approved for flammable liquid.	
	Containers are hazardous when empty.	
Storage Incompatibility	May polymerize explosively when heated above 21oC, or in light, or when inhibitor concentrations fall to low levels.	
	Storage containers may explode at elevated temperatures.	
	Reacts violently with strong oxidizers.	
	❖ Store below 38°C.	
	Avoid oxygen content of less than 5%.	

SECTION 8 Exposure Controls / Personal Protection

Control parameters

Occupational Exposure Limits (OEL)

✤ INGREDIENT DATA

✤ Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure	Methyl	Methyl	410 mg/m3	Not	Not	Not
Limits (RELs)	methacrylate	methacrylate		Available	Available	Available
US OSHA Permissible Exposure	Methyl	Methyl	410 mg/m3	Not	Not	Not
Levels (PELs) – Table Z1	methacrylate	methacrylate		Available	Available	Available
US ACGIH Threshold Limit Values	Methyl	Methyl	50 ppm	100 ppm	Not	DSEN; A4
(TLV)	methacrylate	methacrylate			Available	
 Emergency Limits 						
Ingredient	TEEL-1	TEEL-2	TEEL-3			
Methyl methacrylate	Not Available Not Available		Not Availabl	e		

Ingredient	Original IDLH	Revised IDLH
Methyl methacrylate	1,000 ppm	Not Available
N,N-dimethyl-p-toluidine	Not Available	Not Available

Exposure Controls

Engineering Controls > Exhaust ventilation should be designed to prevent accumulation and recirculation in the workplace and safely remove dust from the air.

Personal Protection



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Eye and Face Protection	Safety glasses with side shields.	
	Chemical goggles.	
	➤ Eye wash unit.	
Skin and Body Protection	Protective over-garments.	
	Overalls.	
	➢ PVC Apron.	
	Ensure ready access to a safety shower.	
Hand Protection	 Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity. Wear chemical protective gloves, butyl rubber gloves. Do NOT use cotton or leather gloves which absorb and concentrate the resin. Do NOT use barrier creams containing emulsified fats and oils as these may absorb the resin. Gloves should be examined for wear and/or degradation constantly. 	
Respiratory Protection	Type A filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)	

SECTION 9 Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Clear liquid; mixes with water
Physical State	Liquid
Odor	Fruity
Melting Point / Freezing Point (°C)	-48 (freezing)
Initial Boiling Point and Boiling Range (°C)	101
Flash Point (°C)	16
Evaporation Rate	3.10 (BuAC = 1)
Flammability	Highly flammable
Lower Explosive Limit (%)	1.80
Vapor Density (Air = 1)	3.50
Relative Density (Water = 1)	0.94
Auto-Ignition Temperature (°C)	411
Viscosity (CPS)	0.53
Solubility in Water	Miscible

SECTION 10 Stability and Reactivity

Reactivity	See section 7
Chemical Stability	Stable under controlled storage conditions provided material contains adequate stabilizer / polymerization inhibitor.
	Excessive aging, heat, contamination with polymerization catalysts, oxygen- free atmosphere, inhibitor depletion, or ultraviolet light (sunlight) may cause polymerization.
	Unstable in the presence of incompatible materials.
	Product is considered stable.
	Hazardous polymerization will not occur.
Possibility of Hazardous Reactions	See section 7
Conditions to Avoid	See section 7



Incompatible Materials	See section 7
Hazardous Decomposition Products	See section 5

SECTION 11 Toxicological Information

Information on toxicological effects

Inhaled	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.
Ingestion	Accidental ingestion may be harmful.
Skin Contact	May cause skin irritation with skin sensitization.
Eye	Liquid and vapor can cause moderate irritation (tears, blurred vision, and redness).
Chronic	Prolonged or repeated overexposure may cause skin sensitization in some individuals, as well as kidney, lung, liver, and heart damage.
Methyl methacrylate	Toxicity –Oral (Mouse) LD50; 3625 mg/kg Toxicity – Dermal (Rabbit) LD50; >5000 mg/kg Toxicity – Inhalation (Rat) LC50; 29.8 mg/L4h Irritation – Eye (Rabbit): 150 mg Irritation – Skin (Rabbit): 10000 mg/kg (open)
N,N-dimethyl-p-toluidine	Toxicity – Dermal (Rabbit) LD50; <935 mg/kg Toxicity – Inhalation (Rat) LC50; 1.4 mg/L4h Toxicity – Oral (Mouse) LD50; 139 mg/kg Irritation – Not Available WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

V	Carcinogenicity	X
V	Reproductivity	x
V	STOT – Single Exposure	V
V	STOT – Repeated Exposure	٧
X	Aspiration Hazard	X
	√ √ √ √ x	VCarcinogenicityVReproductivityVSTOT – Single ExposureVSTOT – Repeated ExposureXAspiration Hazard

Legend: X – Data either not available or does not fill the criteria for classification $\sqrt{}$ - Data available to make classification.

SECTION 12 Ecological Information

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value
	ECO(ECx)	48	Crustacea	48 mg/L
	EC50	72	Algae or other aquatic plants	>110 mg/L
Methyl methacrylate	LC50	96	Fish	>79 mg/L
	EC50	48	Crustacea	69 mg/L
	EC50	96	Algae or other aquatic plants	170 mg/L
	EC50(ECx)	48	Crustacea	13.7 mg/L
	EC50	72	Algae or other aquatic plants	22 mg/L
N,N-dimethyl-p-toluidine	LC50	96	Fish	24.335 mg/L
	EC50	96	Algae or other aquatic plants	15.481 mg/L
	EC50	48	Crustacea	13.7 mg/L



DO NOT discharge into sewer or waterways

Persistence and Degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
Methyl methacrylate	LOW	LOW	
N,N-dimethyl-p-toluidine	HIGH	HIGH	
Bioaccumulative Potential			
Ingredient	Bioaccumulation		
Methyl methacrylate	LOW (BCF = 6.6)		
N,N-dimethyl-p-toluidine	LOW (LogKOW = 2.81)		
Mobility in Soil			
Ingredient	Mobility		
Methyl methacrylate	LOW (KOC = 10.14)		
N,N-dimethyl-p-toluidine	LOW (KOC = 124.8)		

SECTION 13 Disposal Considerations

Waste Treatment Methods

Product / Packaging	\succ Containers may still present a chemical hazard/danger when empty. Do not reuse
Disposal	containers.
	Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
	DO NOT allow wash water from cleaning or process equipment to enter drains.
	It may be necessary to collect all wash water for treatment before disposal.
	\succ In all cases, disposal to sewer may be subject to local laws and regulations and these should
	be considered first.

SECTION 14 Transport Information

Labels Required



Land transport (DOT):

UN Number	1247
UN proper shipping name	Methyl methacrylate monomer, stabilized
Transport hazard class(es)	3
Packing group	II
Environmental hazard	Not Applicable
Special precautions for user	Hazard Label – 3
	Special Provisions – 387, IB2, T4, TP1

Air transport (ICAO-IATA / DGR)

UN Number	1247
UN proper shipping name	Methyl methacrylate monomer, stabilized
Transport hazard class(es)	3



	ERG Code 3L
Packing group	II
Environmental hazard	Not Applicable
Special precautions for user	Special Provisions – A209
	Cargo Only Packing Instructions – 364
	Cargo Only Maximum Qty / Pack – 60 L
	Passenger and Cargo Packing Instructions – 353
	Passenger and Cargo Maximum Qty / Pack – 5 L
	Passenger and Cargo Limited Quantity Packing Instructions – Y341
	Passenger and Cargo Limited Maximum Qty / Pack – 1 L

Sea transport (IMDG-Code / GGVSee)

UN Number	1247
UN proper shipping name	METHYL METHACRYLATE MONOMER, STABILIZED
Transport hazard class(es)	3
Packing group	II
Environmental hazard	Not Applicable
Special precautions for user	EMS Number – F-E, S-D
	Special Provisions – 386
	Limited Quantities – 1 L

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product Name	Group
Methyl methacrylate	Not Available
N,N-dimethyl-p-toluidine	Not Available

Transport in bulk in accordance with the ICG Code

Product Name	Ship Type
Methyl methacrylate	Not Available
N,N-dimethyl-p-toluidine	Not Available

SECTION 15 Regulatory Information

Safety, Health, and Environmental Regulations / Legislation Specific for the Substance or Mixture

* methyl methacrylate is found on the following regulatory lists

International Agency for Research on Cancer (IARC) – Agents classified by the IARC Monographs
US – California Hazardous Air Pollutants Identified as Toxic Air Contaminants
US ACGIH Threshold Limit Values (TLV)
US ACGIH Threshold Limit Values (TLV) - Carcinogens
US Clean Air Act – Hazardous Air Pollutants
US CWA (Clean Water Act) – List of Hazardous Substances
US DOE Temporary Emergency Exposure Limits (TEELs)
US EPA Integrated Risk Information System (IRIS)
US EPCRA Section 313 Chemical List
US NIOSH Recommended Exposure Limits (RELs)
US OSHA Permissible Exposure Limits (PELs) Table Z-1
US Toxic Substances Control Act (TSCA) – Chemical Substance Inventory



US TSCA Chemical Substance Inventory	 Interim List of Active Substances

N,N-dimethyl-p-toluidine is found on the following regulatory lists

Chemical Footprint Project – Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents classified by the IARC Monographs

International Agency for Research on Cancer (IARC) – Agents classified by the IARC Monographs – Group 2B: Possibly

carcinogenic to humans

US – California Proposition 65 – Carcinogens

US – California Safe Drinking Water and Toxic Enforcement Act of 1986 – Proposition 65 List

US AIHA Workplace Environmental Exposure Levels (WEELs)

US Toxic Substances Control Act (TSCA) – Chemical Substance Inventory

US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL)

US TSCA Chemical Substance Inventory – Interim List of Active Substances

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols,	Liquids, or Solids)		Yes
Gas under pressure			No
Explosive			No
Self-heating			No
Pyrophoric (Liquid or Solid)			No
Pyrophoric Gas			No
Corrosive to metal			No
Oxidizer (Liquid, Solid, or Gas)		No
Organic Peroxide			No
Self-reactive			No
In contact with water emits f	lammable gas		No
Combustible Dust			No
Carcinogenicity			No
Acute toxicity (any route of e	xposure)		Yes
Reproductive toxicity			No
Skin Corrosion or Irritation			Yes
Respiratory or Skin Sensitizat	ion		Yes
Serious eye damage or eye in	ritation		Yes
Specific target organ toxicity (single or repeated exposure)		Yes	
Aspiration Hazard		No	
Germ cell mutagenicity			No
Simple Asphyxiant			No
Hazards Not Otherwise Classi	fied		No
US EPA CERCLA Hazardous	Substances and Reportable Quantities (40 CFR	302.4)	
Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg	

Name	Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
Methyl methacrylate	1000	454

State Regulations

US California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm



 US California Proposition 65 – Carcinogens: Listed Substance N,N-dimethyl-p-toluidine

National Inventory Status

National Inventory	Status
Australia – AIIC / Australia Non-Industrial Use	Yes
Canada – DSL	Yes
Canada – NDSL	No (methyl methacrylate; N,N-dimethyl-p-toluidine)
China – IECSC	Yes
Europe – EINEC / ELINCS / NLP	Yes
Japan – ENCS	Yes
Korea – KECI	Yes
New Zealand – NZIoC	Yes
Philippines – PICCS	Yes
USA – TSCA	Yes
Taiwan – TCSI	Yes
Mexico – INSQ	Yes
Vietnam – NCI	Yes
Russia – FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory
	No = One or more of the CAS listed ingredients are not on the inventory
	and are not exempt from listing (see specific ingredients in brackets)

SECTION 16 Other Information

Revision Date	08/11/2021
Initial Date	07/24/2018

The data and information as stated was furnished by the manufacturer/vendor/supplier of this product. Alpha Resources LLC 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.