



SAFETY DATA SHEET MPE™

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: MPE™
Product Use: Multi-Purpose Encapsulant
Product Description: 100% Acrylic Polymer, Water-Base
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Tel. # (800) 266-3982 / Fax (800) 520-3291
Contact #s:
Website Address: www.encasement.com

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Non-Hazardous
GHS Label: None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Material or Component	CAS Number	% by Weight
Water	7732-18-5	20-50
Acrylic Polymers	Not Hazardous	30-60
Aqua Ammonia	1336-21-9	<=0.1
Diphenyl Ketone	119-61-9	<=0.2

SECTION 4: FIRST-AID INFORMATION

Emergency First Aid Procedures and Description:

Eye Contact: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin Contact: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention.

Inhalation: Nasal irritation, headache, dizziness, nausea, vomiting. Heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation. Get medical attention immediately.

Ingestion: If ingested, do not induce vomiting unless directed to do so by a medical personnel. Get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, foam or carbon dioxide to extinguish fire.

Specific Hazards Arising from the Chemical: Dangerous when exposed to heat or flame. Will form flammable or explosive mixtures with air at room temperature. Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and nitrogen. Vapor or gas may spread to distant ignition sources and flash back. Vapors or gas may accumulate in low areas. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Containers may explode in heat of fire. Vapors may concentrate in confined areas. Liquid will float and may reignite on the surface of water.

Special Protective Action for Firefighters: Water should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and flush them away from sources of ignition. Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.
Keep people away from and upwind of spill/leak.
Material can create slippery conditions.

Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods of Cleaning Up: Contain spills immediately with inert materials (e.g. sand, earth).
Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing dust, vapor or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Use personal protective equipment in handling and observe personal hygiene after use of the product.

Conditions for Safe Storage: Storage Temperature: Minimum: 34°F (1.11°C)
Maximum: 120°F (49°C)

Storage Period: 12 months

Keep container closed when not in use. Protect from freezing.

STIR WELL BEFORE USING

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

Component	CAS #	Regulation	Type of Listing	Occupational Exposure Limits
Aqua Ammonia	1336-21-6	Dow	TWA	10 ppm, as ammonia
		ACGIH	TWA	25 ppm
		ACGIH	STEL	35 ppm
		OSHA P1	TWA	35 mg/m ³ 50 ppm
		OSHA P0	STEL	27 mg/m ³ 35 ppm
		NIOSH REL	TWA	18 mg/m ³ 25 ppm
		NIOSH REL	STEL	27 mg/m ³ 35 ppm
		Dow	TWA	5 mg/m ³

Diphenyl Ketone	119-61-9	Dow US WEEL	STEL TWA	10 mg/m ³ 0.5 mg/m ³
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- Engineering Controls:** Mechanical local exhaust ventilation at point of containment release.
- Protective Measures:** Employees should wash their hands and face before eating, drinking or using tobacco products. Educate and train employees in the safe use and handling of this product.
EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.
- Eye/Face Protection:** Chemical splash goggles (ANSI Z-87.1 or approved equivalent).
- Skin Protection:** Impervious (Neoprene gloves).
- Respiratory Protection:** Wear suitable respirator (MSHA/NIOSH approved or equivalent) where exposure limits are exceeded.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	Milky white
Odor:	Slight amine odor
Odor Threshold:	Not Available
pH:	9.2-9.8
Melting Point/Freezing Point:	0°C (32°F) similar to water
Initial Boiling Point and Boiling Range:	100°C (212°F) similar to water
Flash Point:	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
Evaporation Rate:	Not available
Flammability (Solid, Gas):	Not Available
Upper/Lower Flammability or Explosive Limits:	Not Available
Vapor Pressure:	22.7 mm Hg at 20°C (68. °F) similar to water
Vapor Density:	Not Available
Relative Density:	8.5-10#/gal (1.0-1.2 g/ml)
Solubility:	Soluble
Partition Coefficient: N-Octanol/Water:	Not Available
Auto-Ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	50-300 cps

Note: The above data are typical values and must not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY INFORMATION

Reactivity: Non-reactive.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None known.

Conditions/Materials to Avoid: Keep from freezing/No known materials to avoid.

Incompatible Materials: None known.

Hazardous Decomposition: By Thermal decomposition: carbon monoxide, carbon dioxide, acrylic monomers, and other potentially toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

No data is available for this material. The information shown is based on profile of compositionally similar materials.

Oral Toxicity: LD50 rat >5000 mg/kg
 Dermal Toxicity: LD50 rabbit >5000 mg/kg
 Skin Irritation: rabbit may cause transient irritation.
 Eye Irritation: rabbit No eye irritation

Component	Toxicity	
Aqua Ammonia	Acute Inhalation:	LC50 male rat 1 hour 9.850 mg/l
Diphenyl Ketone	Acute Inhalation:	LC50 has not been determined.
	Sensitization:	Guinea pig - did not cause sensitization on laboratory animals; did not cause allergic skin reactions when tested in guinea pigs.
	Subchronic toxicity:	In animals, effects have been reported on following organs: blood, liver, kidney and bone marrow.
	Carcinogenicity:	Has caused cancer in laboratory animals.
	Reproductive toxicity:	In animals study, did not interfere with reproduction and fertility.
	Teratogenicity:	Has been toxic to the fetus in laboratory animals at doses toxic to its mother. Did not cause birth defects in laboratory animals.
	Mutagenicity:	Did not show mutagenic effects in vivo tests.

SECTION 12: ECOLOGICAL INFORMATION

Diphenyl Ketone:

Biodegradability: Aerobi 100 mg/ml OECD Test Guideline 301 C or Equivalent-Not readily degradable; m0%- Not readily biodegraded; 10-day Window: Fail

Bioaccumulation: Cyprinus Carpio (Carp) Calculated
 Bioconcentration Factor (BCF): 3.4-9.2

Ecotoxicity Effects:

Toxicity to Fish: LC50 Fathead minnow (*Pimephales promelas*) 96 Hour Method
 Not specified
 14.7 mg/l

Toxicity to Algae: EC50 *Pseudokirchneriella subcapitata* (green algae) 72 Hour Method
 Not specified
 3.5 mg/l

Toxicity to aquatic invertebrates: EC50 *Ceriodaphnia dubia* (water flea) 48 Hour Method
 Not specified
 7.6 mg/l

SECTION 13: DISPOSAL INFORMATION

Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental laws.

Empty Container Precautions: Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

SECTION 14: TRANSPORTATION INFORMATION

UN Number: Not applicable
 UN proper Shipping Name: Not applicable
 Transport Hazard Class: Not applicable
 Packing Group: Not applicable
 Environmental Hazards: Not hazardous
 Land Transport (DOT): Non-Regulated
 Sea Transport (IMDG): Non-Regulated
 Air Transport (ICAO/IATA): Non-Regulated
 Special Precautions: No data available

SECTION 15: REGULATORY INFORMATION

Unites States TSCA Inventory (US.TSCA): All components of this product are in compliance with the inventory listing requirement of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

CERCLA Information (40CFR302.4): Release of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title Section 304.

SARA TITLE III, Sections 311/312: Chronic Health Hazard

SARA TITLE III, Sections 313: This product does not contain a chemical which is listed in Section 313 at or above the de minimis concentrations.

Workplace Classification

OSHA: This product is considered not hazardous under OSHA Hazard Communication Standard (29CFR 1910.1200).

WHMIS: A component of this product is listed as a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

Proposition 65: This product does not contain a chemical known to cause cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS) Rating:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	0

Prepared By: GLOBAL Encasement, Inc.
Customer Service Department

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This SDS adheres to the standards and regulatory requirements of the United States and has been written under the guidance of the Globally Harmonized System of Classification and Labeling of Chemicals.

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
DOT	Department of Transportation
GHS	Globally Harmonized System (of Classification and Labeling of Chemicals)
ICAO	International Civil Aviation Organization
IATA	International Air Transportation Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration STEL Short Term Exposure Limit
LD50	Median Lethal Dose or Lethal Dose, 50 %
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety
OSHA	Occupational Safety and Health Administration
SARA	Superfund Amendments and Reauthorization Act
TRI	Toxic Release Inventory

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

End of Safety Data Sheet