



**SECTION 1: IDENTIFICATION**

PRODUCT IDENTIFIER

Product Name : Self Cure Monomer

Product Code : AC-198

Intended Use(s) : Inhibited Methyl Methacrylate Monomer

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

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**SECTION 2: HAZARD(S) IDENTIFICATION**

**Classification of the substance or mixture**

**Flammable Liquid** 2  
**Skin Corrosion/Irritation** 2  
**Skin Sensitizer** 1  
**Specific Target Organ Toxicity - Single Exposure** 3

**OSHA Defined Hazards**

Combustible dust, may form combustible dust concentrations in air, explosion hazard

**Label Elements - Pictograms, Signal Word, Hazard Statements, Precautionary Statements, & supplemental Information**





**Signal word (GHS-US) :**

Danger

**Hazard statements:**

Hazards Statements

H225 Highly flammable liquid and vapour

H315 Causes skin irritation

H317 May cause an allergic skin reaction

**Precautionary statements :**

P210 Keep away from heat/sparks/open flames/hot surfaces  
– No smoking

Keep container tightly closed. Keep cool.

P233 Keep container tightly closed

P240 Ground and bond container and receiving equipment

P241 Use explosion-proof Electrical / ventilating / light /.../  
equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P264 Wash hands and exposed skin thoroughly after  
handling

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

P280 Wear protective gloves/protective clothing / eye  
Protection / face protection

P321 Specific treatment (see ... on this label)

P362 Take off contaminated clothing and wash before reuse

P363 Wash contaminated clothing before reuse

P302+P352 IF ON SKIN: Wash with soap and water

P303+P361+P353

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

P332+P313 If skin irritation occurs: Get medical  
advice/attention

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

P370+P378 In case of fire: Use CO2 for extinction

P403+P235 Store in a well ventilated place. Keep cool

P501 Dispose of contents/container to an authorized  
disposal facility



**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**Substances**

Name	Product Identifier	%	GHS-US classification
Methyl Methacrylate	(CAS No) 80-62-6	90-100	Skin Corrosion/Irritation 2 (H315) Skin Sensitizer 1 (H317) Specific Target Organ Toxicity - Single Exposure 3 (H335)
Dimethyltolylamine	(CAS No) 99-97-8	0-1	Oral Toxicity Acute Tox. 3 (H301) Dermal Toxicity Acute Tox. 3 (H311) Inhalation Toxicity Acute Tox. 3 (H331) Carcinogenicity 2 (H351) Specific Target Organ Toxicity - Repeated Exposure 2 (H373) Aquatic Toxicity C3 (H412)

**SECTION 4: FIRST-AID MEASURES**

**General Advice**

Provide the SDS to medical personnel for treatment.

**Inhalation:**

Remove victim to fresh air. Seek immediate medical attention.

**Eye Contact:**

If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

**Skin Contact:**

Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

**Clothing:**

Remove contaminated clothing, wash thoroughly before reuse.

**Ingestion:**

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.



**Notes to Physician:**

This product contains N,N-Dimethyl-p-Toluidine at a low concentration (does not meet criteria for reporting in section 3). While complications from this component are not expected, the presence of this material in the body leads to formation of methemoglobin, which in sufficient concentration causes cyanosis. This is reversed spontaneously after termination of exposure. Treat cyanosis with supportive measures such as bed rest and oxygen inhalation. Thoroughly cleanse the entire contaminated area of the body. If extensive cyanosis is present, treat with methylene blue and vitamin B12.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Chemical (alcohol-resistant) foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing Media**

Water spray or water stream may not be effective.

**Specific Hazards Arising from the Chemical**

High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. This product is a flammable liquid. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Vapor forms an explosive mixture with air.

**Hazardous Combustion Products**

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

**Special Fire Fighting Procedures:**

Use a water spray or fog to reduce or direct vapors, and keep containers cool. Water may not be effective in actually extinguishing a fire involving this product. Do not enter fire area without proper protection. Fight fire from a safe location. Structural firefighters must wear SCBAs and full protective equipment. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

**Protective Equipment and Precautions for Firefighters**

Wear self-contained breathing apparatus for firefighting if necessary. Do not enter fire area without proper protection. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Use water spray to cool unopened containers. Pressure relief system may plug with solids creating risk of overpressure.



## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

#### **Personal Precautions**

Before cleaning any spill or leak, individuals must wear appropriate Personal Protective Equipment that is specified in section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.

#### **Environmental Precautions**

Extinguish all ignition sources. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. May contaminate water supplies/be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

### **Methods and Material for Containment and Cleaning Up**

#### **Methods for Containment**

Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material (e.g. sand or earth). May contaminate water supply.

#### **Methods for Cleaning Up**

Maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of product release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

#### **Advice on Safe Handling**

Keep away from heat, sparks, and flame. Keep container closed after each use. Do NOT use localized heat source such as band heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating the product, which can be set at a maximum temperature of 60°C/140°F. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not eat, drink, or smoke while handling product. Observe precautions found on label. Keep away from heat, sparks, and flame. Keep container closed after each use. Ground and bond all containers when transferring. Refer to Section 8 for suggested exposure controls and personal protection. Observe precautions found on label



**Conditions for Safe Storage, Including any Incompatibilities**

**Storage Conditions**

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Store in accordance with National Fire Protection Association recommendations. Check inhibitor levels periodically, adding to the bulk material if needed. Maintain at a minimum, the original 2-inch headspace in the product container and do not blanket or mix with oxygen-free gas as it renders the inhibitor ineffective. Vapors are uninhibited and may form polymers in vents or flame arresters, resulting in blockage of vents. Product residue may remain in empty containers. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

**Incompatible Materials**

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Methyl Methacrylate 80-62-6	100 ppm TWA; 410 mg/m3 TWA	100 ppm STEL 50 ppm TWA	NIOSH: 100 ppm TWA; 410 mg/m3 TWA
Dimethyltolylamine 99-97-8			

**Engineering Controls**

Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Personnel Protective Equipment (PPE)**

**Respiratory Protection**

A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

**Eye/Face Protection**

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

**Skin and Body Protection**

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.



<b>Full contact:</b>	Splash contact:
<b>Material:</b>	Nitrile rubber
<b>Minimum layer thickness:</b>	0.4 mm Minimum layer thickness: 0.11 mm
<b>Break through time:</b>	480 min Break through time: 120 min

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b> Clear <b>Odor:</b> Acrid Odor <b>Flammable Limit (Air Volume%, 0% Lower/Upper)</b> <b>Evaporation Rate</b> <b>Specific Gravity 0.999652548</b>	<b>Physical State:</b> Liquid <b>Flash Point:</b> 54 F, 12 C <b>Autoignition Temperature:</b> 421°C <b>Boiling Range (low - high)</b> 101°C
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**SECTION 10: STABILITY AND REACTIVITY**

**Note:** Materials listed as stable may become unstable up depletion of inhibitors (such as mequinol or hydroquinone), contact the manufacturer for exact levels and instructions on inhibitor maintenance.

**Material stability**

Stable

**Incompatible materials**

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.

**Hazardous decomposition products**

Oxides of Carbon

**Hazardous polymerization may occur.**

Possibility of hazardous reactions

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Mixture Toxicity**

Inhalation Toxicity: 4,632mg/L



**Component Toxicity**

99-97-8 Dimethyltolylamine  
Oral: 1,650 mg/kg (Rat) Dermal: 500 mg/kg (Rat) Inhalation: 1,400 mg/m3 (Rat)

**Routes of Exposure**

Ingestion

**Target Organs**

Eyes Skin Respiratory System

**Effects of Overexposure**

**Product Components Listed as Carcinogenic**

Cas Number	Description	%weight	Carcinogen Rating
99-97-8	Dimethyltolylamine	.01 - 1.0%	Carcinogen Rating Dimethyltolylamine: DMPT is known to the State of California to be a carcinogen, and is a Prop. 65 listed chemical. DMPT is a listed carcinogen by NTP DMPT is not listed as a carcinogen by IARC, and ACGIH

**SECTION 12: ECOLOGICAL INFORMATION**

**Component Ecotoxicity**

**Methyl Methacrylate** 96 Hr LC50 Pimephales promelas: 243 - 275 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 125.5 - 190.7 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 170 - 206 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 153.9 - 341.8 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: >79 mg/L [flowthrough]; 96 Hr LC50 Oncorhynchus mykiss: >79 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 326.4 - 426.9 mg/L [static] 48 Hr EC50 Daphnia magna: 69 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 170 mg/L

Dimethyltolylamine 96 Hr LC50 Pimephales promelas: 42 - 50.5 mg/L [flow-through]

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes**

It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. When discarded as shipped it is a hazardous waste by the EPA under RCRA. After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations. Comply with all applicable federal, state and local regulations. Waste disposal options include landfilling solids at permitted sites. Incinerate in a chemical incinerator equipped with an afterburner and scrubber. Use registered transporters.





**Contaminated Packaging**

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations

**SECTION 14: TRANSPORT INFORMATION**

Agency	Proper Shipping Name	UN Number	Packing group	Haz. class
DOT	METHYL METHACRYLATE MONOMER, STABILIZED RQ: 1000lbs	UN1247	II	3
IATA	METHYL METHACRYLATE MONOMER, STABILIZED	UN1247	II	3
IMDG	METHYL METHACRYLATE MONOMER, STABILIZED	UN1247	II	3

**SECTION 15: REGULATORY INFORMATION**

**State of California Safe Drinking Water and Toxic Enforcement Act of 1986**

**(Proposition 65):** WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

99-97-8 Dimethyltolylamine 0.1 to 1.0 % Carcinogen

SARA 313

Methyl Methacrylate 80-62-6

**US State Right-to-Know Regulations**

- None

Country	Regulation	All Components Listed
	EINECS	Yes
	SARA Hazard categories	No
	TSCA Inventory	Yes

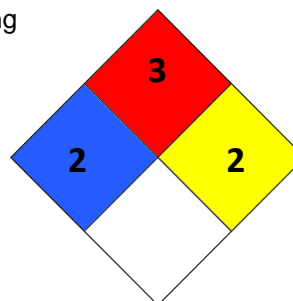
**SECTION 16: OTHER INFORMATION**

**Hazardous Material Information System (HMIS)**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>2</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

HMIS & NFPA Hazard Rating Legend  
 \* = Chronic Health Hazard  
 0 = INSIGNIFICANT  
 1 = SLIGHT  
 2 = MODERATE  
 3 = HIGH

**National Fire Protection Association (NFPA)**



	Flammability
	Health
	Reactivity
	Special Hazard



**DISCLAIMER / STATEMENT OF LIABILITY:**

Factor II, Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology and/or fire prevention as necessary or appropriate to the use and understanding of the data contained in this SDS.

To promote safe handling each customer or recipient should 1) notify and furnish its employees, agents, contractors, customers and/or others whom it knows or believes will use this material of the information regarding hazards or safety, and 2) request its customers to notify their employees, customers and other users of the product of this information.