



# Safety Data Sheet

Issue Date November, 1 2015

Revision Date: June 1, 2020

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Crosslinked Flash Acrylic Liquid

### Other means of identification

**Product Code #** 441\_9

**UN/ID No** UN1993

**Synonyms** Self-Cure Cross Linked Acrylic Monomer

### Recommended use of the chemical and restrictions on use

**Recommended Use** Acrylic temporary crown and bridge material. Denture Relining, rebasing, & post-damming material.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

YATES MOTLOID  
845 N Larch Ave, Suite 2  
Elmhurst, IL 60126

### Emergency Telephone Number

**Company Phone Number** 1-312-226-2473 (Business)  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 2

### Signal Word

**Warning**

### Hazard Statements

Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction  
May cause respiratory irritation. May cause drowsiness or dizziness  
EXTREMELY FLAMMABLE LIQUID AND VAPOR



**Appearance** Clear liquid

**Physical State** Liquid

**Odor** Strong Characteristic acrid

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Keep cool

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician  
If skin irritation or rash occurs: Get medical advice/attention  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**WHMIS Classification**

B2 - Flammable liquid

**Other Hazards**

Harmful to aquatic life with long lasting effects  
Harmful to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Synonyms**

Self-Cure Cross Linked Acrylic Monomer.

Chemical Name	CAS No	Weight-%
Methyl Methacrylate	80-62-6	>85
2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester	97-90-5	5-15
Colorstable Agent, Ultraviolet light absorber (Aromatic Ketone)	Proprietary	<1
Cross Linking Agent (Polyfunctional acrylic monomer)	Proprietary	<1
Benzenamine, N,N,4-trimethyl-	99-97-8	<1

**4. FIRST-AID MEASURES****First Aid Measures**

<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>Skin Contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Get medical attention if symptoms occur.
<b>Inhalation</b>	Remove to fresh air. Keep patient warm and at rest. Seek immediate medical attention/advice.
<b>Ingestion</b>	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.

**Most important symptoms and effects**

<b>Symptoms</b>	Causes skin irritation. Causes severe eye irritation. May cause an allergic skin reaction. May cause dermatitis or irritation in some individuals upon prolonged contact. Inhalation may cause respiratory tract irritation. Inhalation may cause drowsiness or dizziness.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.**Unsuitable Extinguishing Media** Water may be ineffective, but can be used to protect firemen and cool containers.**Specific Hazards Arising from the Chemical**

Product is readily ignitable. Highly flammable liquid and vapor. For bulk size >1L- 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. Vapors are heavier than air and may travel along ground to ignition sources and flash back.

**Hazardous Combustion Products** Carbon oxides.

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** Yes.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protection recommended in Section 8. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

**Environmental Precautions** Prevent runoff from entering drains, sewers or streams.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Absorb spillage with non-combustible, absorbent material. Do not use combustible materials, such as saw dust. Use clean non-sparking tools to collect absorbed material. Maximize ventilation by opening doors and windows. Place all clean-up materials in an appropriate closed container in accordance with local, state, and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove contaminated clothing and wash before reuse. In the event of an uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Wash thoroughly after handling before eating, drinking, smoking, or using toilet facilities. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Vapor is heavier than air; beware of pits and confined spaces. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Use non-sparking hand tools and explosion-proof electrical equipment. Take precautionary measures against static discharges. Keep containers closed when not in use. Ground/bond container and receiving equipment. Observe precautions found on the label.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Store locked up. Storage temperature should preferably not exceed 25°C/77°F. Methacrylate stored in bulk must be kept in contact with air (oxygen). Monomer vapors are uninhibited and may form polymers in vent or flame arresters, resulting in blockage of vents. Avoid excessive heat in storage to maintain product quality. Temperatures above 21°C (70°F), localized heat sources (example: drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

**Packaging Materials** Keep in original container.

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl Methacrylate 80-62-6	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 410 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m <sup>3</sup>	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m <sup>3</sup>

### Appropriate engineering controls

#### Engineering Controls

Apply technical measures to comply with the occupational exposure limits. Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective, wear suitable personal protective equipment, which perform satisfactorily and meet OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of personal protective equipment. Eyewash stations. Showers.

### Individual protection measures, such as personal protective equipment

#### Eye/Face Protection

Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to U.S. OSHA 29CFR SS1910.133. Canadian standards, or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

#### Skin and Body Protection

Skin: Wear appropriate gloves to prevent skin exposure; chemical impervious gloves (eg: Nitrile or Neoprene). Refer to US OSHA 29 CFR 1910.138.

Body/Clothing: Wear appropriate protective clothing to prevent skin exposure.

#### Respiratory Protection

Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.

#### General Hygiene Considerations

Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State	Liquid	Odor	Strong Characteristic
Appearance	Clear liquid		acid
Color	Not determined	Odor Threshold	Not determined
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	Not determined		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	101 °C / 214 °F		
Flash Point	11.5 °C / 52.7 °F		
Evaporation Rate	3.1	Tag Closed Cup	
Flammability (Solid, Gas)	Liquid-not applicable	(butyl acetate = 1)	
Upper Flammability Limits	12.5% @ 421°C/790°F		
Lower Flammability Limit	2.12% @ 421°C/790°F		
Vapor Pressure	28 mmHg @ 20°C/68°F		
Vapor Density	3.5 @ 15.5°C/60°F	(Air=1)	
Specific Gravity	0.94	(1=Water)	
Water Solubility	1.6 wt% @ 20°C/68°F		

<b>Solubility in other solvents</b>	Not determined
<b>Partition Coefficient</b>	Not determined
<b>Autoignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Kinematic Viscosity</b>	Like water
<b>Dynamic Viscosity</b>	Like water
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	Not determined
<b>Density</b>	0.949 g/ml @ 15.5°C/60°F

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive upon depletion of inhibitor.

### Chemical Stability

Unstable upon depletion of inhibitor.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization may occur.

### Conditions to Avoid

Temperatures above 21°C (70°F), localized heat sources (example: drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

### 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 when burned.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

#### **Eye Contact**

Avoid contact with eyes. Causes serious eye irritation.

#### **Skin Contact**

Avoid contact with skin. Causes skin irritation. May cause an allergic skin reaction.

#### **Inhalation**

May cause respiratory irritation. May cause drowsiness or dizziness.

#### **Ingestion**

Ingestion may cause irritation of the mucous membranes, esophagus, and stomach.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl Methacrylate 80-62-6	= 7872 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	= 4632 ppm ( Rat ) 4 h = 400 ppm ( Rat ) 1 h
2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester 97-90-5	= 3300 mg/kg ( Rat )	-	-
Cross Linking Agent (Polyfunctional acrylic monomer)	> 90 mL/kg ( Rat )	-	-
Benzenamine, N,N,4-trimethyl- 99-97-8	= 1650 mg/kg ( Rat )	-	= 1400 mg/m <sup>3</sup> ( Rat ) 4 h

**Information on physical, chemical and toxicological effects****Symptoms**

Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl Methacrylate 80-62-6		Group 3		

**Legend***IARC (International Agency for Research on Cancer)**Group 3 IARC components are "not classifiable as human carcinogens"***STOT - single exposure**

Causes damage to the following organs through prolonged or repeated exposure: nose, liver, kidneys.

**Numerical measures of toxicity**

Not determined

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methyl Methacrylate 80-62-6	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	243 - 275: 96 h Pimephales promelas mg/L LC50 flow- through 125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow-through 153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow- through 79: 96 h Oncorhynchus mykiss mg/L LC50 static 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static		69: 48 h Daphnia magna mg/L EC50
Benzenamine, N,N,4-trimethyl- 99-97-8		42 - 50.5: 96 h Pimephales promelas mg/L LC50 flow-through		

**Persistence/Degradability**

Not readily biodegradable Chemical Oxygen Demand (COD): 88% (28 days) Inherent Biodegradation: Dissolved Organic Carbon Removal (DOC Removal): &gt;95% (28 days)

**Bioaccumulation**

Not determined

**Mobility**

Potential for mobility in soil is very high

Chemical Name	Partition Coefficient
Methyl Methacrylate 80-62-6	0.7
Benzenamine, N,N,4-trimethyl- 99-97-8	2.81

**Other Adverse Effects**

Not determined

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Waste Number**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl Methacrylate 80-62-6	U162	Included in waste stream: F039		U162

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Methyl Methacrylate 80-62-6	Toxic Ignitable

### 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

<b>UN/ID No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable liquids, n.o.s. (Methyl methacrylate monomer, stabilized, N,N-dimethyl-p-toluidine)
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Reportable Quantity (RQ)</b>	1000 lb

**IATA**

<b>UN/ID No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable liquid, n.o.s. (Methyl methacrylate monomer, stabilized, N,N-dimethyl-p-toluidine)
<b>Hazard Class</b>	3
<b>Packing Group</b>	II

**IMDG**

<b>UN/ID No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable liquid, n.o.s. (Methyl methacrylate monomer, stabilized, N,N-dimethyl-p-toluidine)
<b>Hazard Class</b>	3
<b>Packing Group</b>	II



## International Inventories

**Legend:**

**PICCS** - *Philippines Inventory of Chemicals and Chemical Substances*

**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methyl Methacrylate 80-62-6	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methyl Methacrylate - 80-62-6	80-62-6	>85	1.0

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methyl Methacrylate 80-62-6 ( >85 )	1000 lb			X

## California Proposition 65

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methyl Methacrylate 80-62-6	X	X	X

**16. OTHER INFORMATION****NEPA****Health Hazards**

2

**Flammability**

3

**Instability**

2

**Special Hazards** Not determined  
**Personal Protection** Gloves and safety glasses or chemical splash goggles**HMIS****Health Hazards**

2

**Flammability**

3

**Physical Hazards**

2

**Issue Date**

01-Mar-2013

**Revision Date:**

01-Jun-2020

**Revision Note**

New address

**Disclaimer**

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

**End of Safety Data Sheet**

# SAFETY DATA SHEET



Issued Date: June 1, 2015

Revision Date: June 1, 2020

## SECTION I PRODUCT AND COMPANY IDENTIFICATION

### Product Identifiers

Product Name: Crosslinked Flash Acrylic Powder (Fibered)  
Product Code: 441\_\_7

### Recommended Use of the substance or mixture and Restrictions on Use

Cosmetic or Dental Use Only

### Details of the Supplier of the Safety Data Sheet

#### **Supplier Name:**

Yates Motloid

#### **Supplier Address**

845 N Larch Ave, Suite 2

Elmhurst, IL 60126

Website: [www.yates-motloid.com](http://www.yates-motloid.com)

E-mail: [sales@yates-motloid.com](mailto:sales@yates-motloid.com)

### Emergency Telephone Numbers

**Company Phone Number:** (312) 226-2473 (During Business Hours, 8:00am - 4:00pm CST)

**Emergency Telephone:** INFOTRAC: 1-800-535-5053 (Outside U.S. 1-352-323-3500)

## SECTION II HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### **Hazard Class - Physical, Health, Environmental**

Eye Damage/Irritation

Reproductive Toxicity

Reproductive Toxicity

#### **Category**

2A

1

2

### 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

Warning

### Hazards Statements

H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H361 Suspected of damaging Fertility or the unborn child

### Precautionary Statements - Prevention, Response, & Disposal

P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P240 Ground and bond container and receiving equipment  
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

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	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P281	Use personal protective equipment as required
	P321	Specific treatment (see...on this label)
	P363	Wash contaminated clothing before reuse
	P302+P352	IF ON SKIN: Wash with soap and water
	P305+P351	IF IN EYES: Rinse continuously with water for several minutes.
	+P338	Remove contact lenses if present and easy to do – continue rinsing
	P308+P313	IF exposed or concerned: Get medical advice/attention
	P333+P313	Get medical advice/attention
	P337+P313	Get medical advice/attention
	P405	Store locked up
	P501	Dispose of contents/container to an authorized disposal facility

## SECTION III COMPOSITION ON INGREDIENTS

Chemical Name	Cas No.	Weight-%	GHS Ratings
Polymethyl Methacrylate	9011-14-7	.	Eye Damage/Irritation 2B (H320)
Diethyl Phthalate	84-66-2	.	Eye Damage/Irritation 2B (H320) Reproductive Toxicity 2 (H361) Aquatic Toxicity A3 (H402)
Benzoyl Peroxide	94-36-0	-	Eye Damage/Irritation 2A (H319) Skin Sensitizer (H317)

## SECTION IV 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.

## SECTION V FIRE-FIGHTING MEASURE

### Suitable Extinguishing Media

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

### Unsuitable Extinguishing Media

Water may not be effective in extinguishing this fire.

### Specific Hazards Arising from the Chemical

Polymers are combustible dusts, care should be taken to avoid creating explosive concentrations in the air. Follow grounding and bonding procedures.

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## **Special Fire Fighting Procedures:**

Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into air producing a fire hazard and possible explosion hazard if exposed to ignition source. Firefighters should wear self-contained breathing apparatus.

## **Protective Equipment and Precautions for Firefighters**

Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Polymers are sensitive to static discharge, follow grounding and bonding procedures. Polymers are not sensitive to mechanical impacts.

## **SECTION VI 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. Keep airborne particulates at a minimum when cleaning up spills. 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. 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 (30m/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. Not a RCRA Hazardous waste.

## **SECTION VII HANDLING AND STORAGE**

### **Precautions for Safe Handling**

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

Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping. Avoid prolonged contact with the product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

### **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. The temperature should remain at or under 72°F (22°C) at all times. Storing at above recommended temperature will cause product performance issues. Store in accordance with National Fire Protection Association recommendations. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

#### **Incompatible Materials**

Strong oxidizers, strong oxidizing agents.

## **SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Polymethyl Methacrylate 9011-14-7			
Diethyl Phthalate 84-66-2		5 mg/m3 TWA	NIOSH: 5 mg/m3 TWA
Benzoyl Peroxide	5 mg/m3 TWA	5 mg/m3 TWA	NIOSH: 5 mg/m3 TWA

### **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.

### **Personal Protective Equipment (PPE)**

#### **Respiratory Protection**

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A respirator should be worn whenever workplace conditions warrant use of a respirator. If dust conditions are present, a N95 respirator dust mask is required. None required if airborne concentrations are maintained below any exposure limit that may be 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.

### Full Contact:

Material: Nitrile Rubber

Minimum Layer Thickness: 0.4 mm

Break Through Time: 480 min.

### Splash Contact:

Material: Nitrile Rubber

Minimum Layer Thickness: 0.11 mm

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 IX PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Pink

**Odor:** Faint

**Flammable Limit (Air Volume%, 0% Lower/Upper):** 0%

**Evaporation Rate:** No Data Available

**Specific Gravity:** 0

**Physical State:** Powder

**Flash Point:** 579° F, 304° C

**Autoignition Temperature:** -

**Boiling Range (low-high):** 295°C

## SECTION X STABILITY AND REACTIVITY

### Material Stability

Stable

### Incompatible Materials

Strong Oxidizers

### Hazardous Decomposition Products

Methacrylate Monomer and Oxides of Carbon when burned

### Possibility of Hazardous Reactions

Hazardous polymerization will not occur

## SECTION XI TOXICOLOGICAL INFORMATION

### Mixture Toxicity

### Component Toxicity

### Routes of Exposure

Inhalation

Eye Contact

Ingestion

### Target Organs

Eyes

Central Nervous System

Reproductive System

Skin

Peripheral Nervous System

Respiratory System

### Effects of Overexposure

### Product Components Listed as Carcinogenic

CAS Number

Description

%Weight

Carcinogen Rating

None

No data available

## SECTION XII ECOLOGICAL INFORMATION

### Component Ecotoxicity

Diethyl Pthalate

96 Hr LC50 Pimephales promelas: 17 mg/L [flow-through]; 96 Hr LC50

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Issued Date: June 1, 2015

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Pimephales promelas: 16.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 22 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 16.7 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 12 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 36 - 74 mg/L; 48 Hr EC50 Daphnia magna: 86 mg/L [Static] 72 Hr EC50 Desmodesmus subspicatus: 23 mg/L; 72 Hr EC50 Desmodesmus subspicatus: 23 mg/L [static]; 96 Hr EC50 Desmodesmus subspicatus: 21 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 21 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 42 - 255 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 2.11 - 4.29 mg/L [static]

## SECTION XIII DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### Disposal of Wastes

Dispose waste material in accordance with Federal, State, and Local regulations. It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. 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 XIV TRANSPORT INFORMATION

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Not Regulated, Polymer, NOS			
IATA	Not Regulated, Polymer, NOS			
IMDG	Not Regulated, Polymer, NOS			

## SECTION XV 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:

- None

### SARA 313

- None

### US State Right-to-Know Regulations

-None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
	EINECS	Yes
	SARA Hazard Categories	No
	TSCA Inventory	Yes

## SECTION XVI OTHER INFORMATION

### Hazardous Material Information System (HMIS)

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

#### HMIS & NFPA Hazard Rating

Legend

\* = Chronic Health Hazard

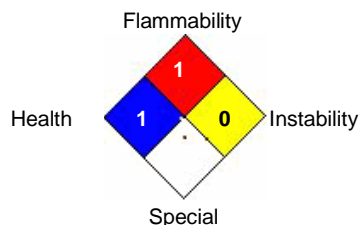
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

### National Fire Protection Association (NFPA)



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

**SDS Preparation Date: June 1, 2020**