

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

074582409

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

071069566 071365402 071365436 071365469 071365493 071403054 071403062 071403070 074582672 71365402  
71365469 71365493

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

071379510 071379528 071379536 071379544 071379551 074582375 074582383 074582391 074582417 074582425  
074582433 074582466 074582631 074591889 074591897 074591905 074591921 074591939 074592606 074592614  
074592630 074592648 074592655 074599973

Effective Date 09-Oct-2018

Version 4

## 1. IDENTIFICATION

**Product Identifier****Product Name** SELF CURING DENTURE POWDER / JET DENTURE REPAIR POWDER**Other means of identification****SDS#** 004**Product Code** 0830, 0834, 0850, 0856, 0870, 0880 / 1212, 1220, 1223, 1230, 1234, 1250, 1256, 1270, 1280**Recommended use of the chemical and restrictions on use****Recommended Use** Fabrication of dentures**Details of the supplier of the safety data sheet****Supplier Address** Lang Dental Mfg. Co., Inc.  
175 Messner Dr.  
Wheeling, IL 60090  
USA**Emergency telephone number****Company Phone Number** 847-215-6622**Emergency Telephone (INFOTRAC)** 352-323-3500 (International)  
800-535-5053 (North America)**Authorized European Representative**MediMark® Europe SARL  
11, rue Emile Zola – BP 2332  
38033 Grenoble Cedex 2  
France  
Tel: +33 476 86 43 22  
Fax: +33 476 17 19 82  
Email: info@medimark-europe.com

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

Skin sensitization	Category 1
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**Signal word** Warning**Hazard statements** H317 May cause an allergic skin reaction.

<b>Physical State</b>	Powder	<b>Appearance</b>	Fine, white to pigmented	<b>Odor</b>	Faint odor in bulk
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**Precautionary Statements – Prevention**

- P261 Avoid breathing dust, fumes, gas, mist, vapors or 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.

### Precautionary Statements – Response

- P281 Use personal protective equipment as required.  
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. Remove contact lenses if present and easy +P338 to do – continue rinsing.  
P308+P313 If exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 Get medical advice/attention.

### Precautionary Statements – Disposal

- P501 Dispose of contents/container to an approved waste disposal plant.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Polymer	9011-14-7	< 90	*
Benzoyl peroxide	94-36-0	< 2	*

\*Specific chemical weight has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### First aid measures

- Inhalation** Remove to fresh air. Keep at rest in a position comfortable for breathing. Get medical attention if discomfort persists.
- Eye contact** Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, get medical advice / attention.
- Ingestion** Do NOT induce vomiting. Drink plenty of water or milk immediately. If vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately and provide an estimate of when and how much material was ingested.
- Skin Contact** Wash with soap and water. If irritation persists, call a physician. Take off contaminated clothing and wash before reuse.

### Most important symptoms and effects, both acute and delayed

- Symptoms** Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.

### Indication of any immediate medical attention and special treatment needed

- Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

- Suitable:** Water, chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide (CO<sub>2</sub>),  
**Unsuitable:** Water may not be effective in extinguishing this fire.

### Specific hazards arising from the chemical

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

### 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

For bulk size: 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 charge, follow grounding and bonding procedures. Polymers are not sensitive to mechanical impacts.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. Remove any contaminated clothing and wash thoroughly before reuse.

### Methods and material for containment and clean-up

**Method for containment** Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material, sand or earth. May contaminate water supply.

**Method for clean-up** Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Clean up in accordance with all applicable regulations. Wash all affected areas with plenty of warm water and soap.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Avoid breathing dust or fume. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed to prevent water absorption and contamination. Store in a dry, cool and well-ventilated place away from direct sunlight or other sources of light or intense heat. Temperature not to exceed 35°C.

**Packaging materials** Keep in original container.

**Incompatible materials** Strong oxidizing agents

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzoyl peroxide 94-36-0	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

**Appropriate engineering controls** Apply technical measures to comply with the occupational exposure limits. When working with large quantities of product, provide adequate ventilation (e.g. local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

### 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 US OSHA 29 CFR 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** If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to US OSHA 29 CFR SS1910.138 or the appropriate standards of Canada or the EC member states.

**Respiratory protection** No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per US OSHA requirement in 29 CFR SS 1910.134, or applicable US state regulations, or the appropriate standards of Canada, its provinces, EC member states or Australia. VENTILATION: Local exhaust at processing equipment.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	Powder	<b>Odor</b>	Faint odor in bulk
<b>Appearance</b>	Fine		
<b>Color</b>	White to pigmented		
<b>Property</b>	<b>Values</b>		
<b>Flash point</b>	304°C / 579°F		
<b>Autoignition Temperature</b>	80°C		
<b>Evaporation rate</b>	Not applicable		
<b>Flammability limits in air</b>			
<b>Upper flammability limit</b>	Not applicable		
<b>Lower flammability limit</b>	Not applicable		
<b>Specific gravity</b>	0		

**10. STABILITY AND REACTIVITY**

<b><u>Reactivity</u></b>	Not reactive under normal conditions
<b><u>Chemical stability</u></b>	Stable under recommended storage conditions
<b><u>Possibility of hazardous reactions</u></b>	None under normal processing
<b>Hazardous polymerization</b>	Does not occur.
<b><u>Incompatible materials</u></b>	Strong oxidizing agents
<b><u>Hazardous decomposition products</u></b>	Methacrylate monomer, oxides of carbon when burned

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposures**

<b>Product information</b>	This product has not been tested on animals to obtain toxicology data.
<b>Inhalation</b>	Not expected to be an inhalation hazard under normal conditions of intended use
<b>Eye contact</b>	Avoid contact with eyes.
<b>Skin contact</b>	Avoid contact with skin.
<b>Ingestion</b>	Do not taste or swallow.

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

Symptoms See Section 4.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Component Carcinogenicity No data available

**12. ECOLOGICAL INFORMATION**

<b><u>Component Ecotoxicity</u></b>	There is no specific data available for this product; however, very large releases may be harmful or fatal to overexposed aquatic life.
<b><u>Persistence and degradability</u></b>	Not determined
<b><u>Bioaccumulation</u></b>	Not determined
<b><u>Mobility</u></b>	Not determined
<b><u>Other adverse effects</u></b>	Not determined

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

##### **Disposal of wastes**

Follow all local and national government regulations in disposing material or contaminated packaging.

##### **Contaminated Packaging**

For bulk only: Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers properly in accordance with federal, state and local regulations.

### 14. TRANSPORTATION INFORMATION

#### DOT

Not regulated

#### IATA

Not regulated

#### IMDG

Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

EINECS This product is a medical device and not subject to chemical notification requirements.

#### US Federal Regulations

TSCA This product is an FDA regulated device and not subject to TSCA regulations.

SARA 302 – Extremely Hazardous – Not Listed

SARA 311 / 312 Hazard Categories – This product is an FDA regulated device and not subject to reporting requirements.

SARA 313 – Toxic Chemicals, component Benzoyl peroxide 94-36-0 Listed

#### US State Regulations

California Proposition 65 – This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: None

### 16. OTHER INFORMATION

HMIS	Health Hazards	Flammability	Physical Hazards
	1	1	0

**Effective Date** 09-Oct-2018

#### 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 guidance for safe handling, use, processing, storage, transportation, disposal and release. It 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

## 1. IDENTIFICATION

**Product Identifier****Product Name** SELF CURING DENTURE LIQUID**Other means of identification**

**SDS#** 044  
**UN/ID No** UN1993  
**Product Code** 0804, 0806, 0807, 0808, 0834, 0856

**Recommended use of the chemical and restrictions on use****Recommended Use** Self-curing acrylic resin**Details of the supplier of the safety data sheet**

**Supplier Address** Lang Dental Mfg. Co., Inc.  
 175 Messner Dr.  
 Wheeling, IL 60090  
 USA

**Emergency telephone number**

**Company Phone Number** +1-847-215-6622  
**Emergency Telephone (INFOTRAC)** +1-352-323-3500 (International)  
 800-535-5053 (North America)

**Authorized European Representative**

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## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

Flammable liquids	Category 2
Skin Corrosion / Irritation	Category 2
Skin Sensitization	Category 1
Specific Target Organ Toxicity - Single Exposure (Respiratory)	Category 3

**Signal word** Danger

**Hazard statements** H225 Highly flammable liquid and vapor.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.

**Appearance** Clear**Physical state** Liquid**Odor** Acrid





## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable:** Chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide,

**Unsuitable:** Water spray or water stream may not be effective.

### Specific hazards arising from the chemical

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. This product is 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 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.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Before cleaning any spill or leak, individuals must wear personal protective equipment as required. Remove any contaminated clothing and wash thoroughly before reuse.

**Environmental precautions** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

### Methods and material for containment and clean-up

**Method for containment** Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. DO NOT use combustible materials such as sawdust. May contaminate water supply.

**Method for clean-up** Maximize ventilation (open doors and windows) and secure all sources of ignition. 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.

## 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. 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. Keep away from heat, sparks, and flame. Keep container closed after each use. Ground and bond all containers when transferring. Observe precautions found on the label.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Protect from direct sunlight. Keep container closed to prevent water absorption and contamination. Methacrylate stored in bulk quantities must be kept in contact with air (oxygen). Keep at temperature not exceeding 30°C/86 °F.

**Packaging materials** Keep in original container.

**Incompatible materials** Strong oxidizing agents, strong reducing agents, free-radical generators, inert gases, oxygen scavengers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. The following information is given as general guidance.

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

ACGIH = American Conference of Governmental Industrial Hygienists / OSHA = Occupational Safety and Health Administration  
 PEL = Permissible Exposure Levels / STEL – Short Term Exposure Limit / TLV – Threshold Limit Value / TWA = Time Weighted Average

### Appropriate engineering controls

#### **Engineering controls**

For bulk size: Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

### 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 US 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**

If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to US OSHA 29CFR SS1910.138 or the appropriate standards of Canada or the EC member states. Wear suitable protective clothing.

#### **Respiratory protection**

No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per US OSHA requirement in 29 CFR SS 1910.134, or applicable US state regulations, or the appropriate standards of Canada, its provinces, or the EC member states. VENTILATION: Local exhaust at processing equipment.

#### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid	Odor	Acrid
Appearance	Liquid	Odor threshold	Not determined
Color	Clear		

<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	12°C / 54°F	
Evaporation rate	Not determined	
Flammability (solid, gas)	n/a (liquid)	
Flammability limits in air		
Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
Specific gravity	0.949	Water = 1
Autoignition temperature	421°C / 790°F	
<u>Other information</u>		
Density	0.949 g/mL	

## 10. STABILITY AND REACTIVITY

### Reactivity

Unstable/Reactive upon depletion of inhibitor.

**Chemical stability** Stable under recommended storage conditions.  
**Possibility of hazardous reactions** None under normal processing  
**Hazardous polymerization** Hazardous polymerization may occur.

**Incompatible materials**

Strong oxidizing agents, strong reducing agents, free-radical generators, inert gases, oxygen scavengers  
 Material has strong solvent properties and can soften paint and rubber.

**Hazardous decomposition products** Carbon oxides

**11. TOXICOLOGICAL INFORMATION**

**Mixture Toxicity** Inhalation Toxicity: 4,632 mg/L

**Component Toxicity** No data available

**Routes of Exposure** – No data available

Target Organs – Eyes, Skin, Respiratory System

**Inhalation** Harmful if inhaled.  
**Eye contact** Causes severe eye irritation.  
**Skin contact** Causes skin irritation. May be harmful in contact with skin.  
**Ingestion** May be harmful if swallowed.

**Product Components Listed as Carcinogenic** None

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

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; 326.4-426.9 96 h Poecilia reticulata mg/L LC50 static; >79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through; >79: 96 h Oncorhynchus mykiss mg/L LC50 static	-	69: 48 h Daphnia magna mg/L EC50

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes**

Follow all local and national government regulations in disposing material or contaminated packaging.

For U.S. - Dispose of in accordance with federal, state and local regulations. When discarded, it is considered a hazardous waste by the EPA under RCRA. The reportable quantity for methyl methacrylate is 1000 lb. (40 CFR Part 302). Add excess inhibitor before disposing.

**Contaminated Packaging**

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers in accordance with local and national government regulations.

**14. TRANSPORTATION INFORMATION**

**DOT**

UN / ID No	UN1993
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Proper shipping name	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized / N,N-Dimethyl-p-Toluidine solution)
Hazard Class	3
Packing Group	II
Reportable Quantity (RQ)	1000 lb. (methyl methacrylate)

#### IATA

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized / N,N-Dimethyl-p-Toluidine solution)
Hazard Class	3
Packing Group	II

#### IMDG

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized / N,N-Dimethyl-p-Toluidine solution)
Hazard Class	3
Packing Group	II

## 15. REGULATORY INFORMATION

#### International Inventories

Methyl methacrylate 80-62-6

**TSCA** Listed United States Toxic Substances Control Act, Section 8(b) Inventory

**DSL** Listed Canadian Domestic Substances List

**EINECS** Listed European Inventory of Existing Chemical Substances

**EU Regulations** EC No. 1272/2008 (CLP) Classification, Labeling, Packaging  
Medical Devices Directive 93/42/EEC - Class I Medical Devices

**US Federal Regulations** SARA 302 – Extremely hazardous substance - not listed  
SARA 311/312 – Hazard categories – listed Methyl methacrylate 80-62-6  
SARA 313 – Methyl Methacrylate 80-62-6

**US State Regulations** California Proposition 65 – Warning. This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: None

**US State Right-to-Know Regulations** Not established

## 16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability
	2	3	2
HMIS	Health Hazards	Flammability	Physical Hazards
	2	3	2

**Effective Date** 03-Mar-21

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End of Safety Data Sheet