

# Safety Data Sheet

## Section 1 - Chemical Product and Company Identification

**Product Name:** Durabase Powder

**Company Identification:**

Reliance Dental Mfg., LLC.

5805 W. 117<sup>th</sup> Place

Alsip, IL 60803

**For Product Information, call:** 708-597-6694 **For Medical Information, call:** 800-535-5053

## Section 2 - Hazards Identification

**Classification of the substance or mixture**

**Hazard Class – Physical, Health, Environmental**

**Category**

Eye Damage/Irritation	2A
Skin sensitizer	1
Reproductive Toxicity	2
Aquatic Toxicity	A3

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
H320	Causes eye irritation
H361	Suspected of damaging fertility of the unborn child
H402	Harmful to aquatic life

**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/vapors/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
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
+P338	minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/treatment
P337+P313	Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to an authorized disposal facility

### Section 3 - Composition, Information on Ingredients

Item	Chemical Name	CAS #	WT/WT%	GHS Ratings
01	Polymethyl Methacrylate	9011-14-7	80 - 90	Eye damage/Irritation 2B(H320)
02	Diethyl Phthalate	84-66-2	10 – 20	Eye damage/Irritation 2B(H320) Reproductive Toxicity 2 (H361) Aquatic Toxicity A3 (H402)
03	Benzoyl Peroxide	94-36-0	1 – 5	Eye damage/Irritation 2A(H319) Skin Sensitizer 1 (H317)

### Section 4 - First Aid Measures

<b>General advice</b>	Provide the SDS to medical personnel for treatment.
<b>Inhalation:</b>	Remove victim to fresh air. Seek immediate medical attention.
<b>Eye Contact:</b>	If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
<b>Skin Contact:</b>	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.
<b>Clothing:</b>	Remove contaminated clothing, wash thoroughly before reuse.
<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.

### Section 5 - Fire Fighting Measures

<b>Suitable Extinguishing Media:</b>	Water, Chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide.
<b>Unsuitable Extinguishing Media:</b>	Water may not be effective in extinguishing this fire.
<b>Specific Hazards Arising from the Chemical:</b>	Polymers are combustible dusts, care should be taken to avoid creating explosive concentrations in the air. Follow grounding and bonding procedures.
<b>Special Fire Fighting Procedures:</b>	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.
<b>Protective Equipment and Precautions for Firefighters:</b>	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 bounding procedures. Polymers are not sensitive to mechanical impacts.

## 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. 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 (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. Not a RCRA Hazardous waste.

## Section 7 - Handling and Storage

### PRECAUTIONS FOR 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 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 8 - 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/m <sup>3</sup> TWA	NIOSH: 5 mg/m <sup>3</sup> TWA
Benzoyl Peroxide 94-36-0	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	NIOSH: 5 mg/m <sup>3</sup> 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.

**Personnel Protective Equipment (PPE)  
Respiratory Protection**

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 materials. If necessary, refer to 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 9 - Physical and Chemical Properties**

<b>APPEARANCE:</b>	Fine pink pigmented powder.
<b>ODOR:</b>	Faint odor in bulk.
<b>FLASH POINT:</b>	579°F, 304°C
<b>FLAMMABLE LIMIT (AIR VOLUME %)</b>	0%
<b>EVAPORATION RATE</b>	No data available.
<b>BOILING RANGE (LOW-HIGH)</b>	295°C
<b>SPECIFIC GRAVITY:</b>	0.00

**Section 10 - Stability and Reactivity**

<b>MATERIAL STABILITY</b>	Stable
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	Strong oxidizing agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Methacrylate Monomer and Oxides of Carbon when burned.
<b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	Hazardous polymerization will not occur.

## Section 11 - Toxicological Information

### MIXTURE TOXICITY

#### Component Toxicity

**Routes of Exposure:** Inhalation, Eye Contact, and Ingestion

**Target Organs:** Eyes, Central Nervous System, Reproductive System, Skin, Peripheral Nervous System, and Respiratory System

#### Effects of Overexposure:

#### Product Components Listed as Carcinogenic

CAS Number	Description	%Weight	Carcinogen Rating
None			No data available

## Section 12 - Ecological Information

### Component Ecotoxicity

**Diethyl Phthalate:** 96Hr LC50 Pimphales promelas: 17 mg/L (flow-through); 96 Hr LC50 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 Desmordesmus subspicatus: 21 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 21 mg/L (static); 72 Hr EC50 Pseudokirchneriella subcapitate: 42 – 255 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitate: 2.11-4.29 mg/L (static)

## Section 13 - Disposal Considerations

### WASTE DISPOSAL METHOD

**Disposal of Wastes:** Dispose of properly 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 14 - Transport Information

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

## 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:

-None

**SARA 313** Benzoyl Peroxide 94-36-0

### US State Right-to-know Regulations

-None

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

## Section 16 - Additional Information

### HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTIVE EQUIPMENT:	B

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0

### HMIS & NFPA Hazard Rating

\* = Chronic Health Hazard

0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

B = Gloves and Safety Glasses or Chemical Goggles.

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, process, 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 materials used in combination with any other materials on in any process, unless specified in the text.

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