SAFETY DATA SHEETS

This SDS packet was issued with item: 076022768

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

076022750 076022776 076022784 076022792

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).

076022644 076022677 076022735

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: DuraBase Powder CHEMICAL NAME: Poly Methyl Methacrylate MANUFACTURER: Reliance Dental Mfg., Co., 5805 W. 117th Place, P.O. Box 38, Worth, IL 60482 For Medical Information: 800-535-5053 **TELEPONE:** For Product Information: 708-597-6694

SECTION II - HAZARDOUS INGREDIENTS OF MIXTURES

HAZARDOUS COMPONENT	CAS REG. NO.	%	TLV	(UNITS)	PEL	(UNITS)
Particulates NOC	NE	< 99	10	mg/m ³	15	mg/m ³
Residual Monomers	NA	< 1	NA		NA	
DialkylPhthalate	84-66-2	< 15	5	mg/m ³	5	mg/m ³
Trade Secret	NA	< 5	10	mg/m ³	6	mg/m ³
SECTION III - PHYSICAL DAT	ГА					

BOILING POINT: NA **SPECIFIC GRAVITY** (h₂O=1): 1.25 VAPOR PRESSURE: NA PERCENT VOLATILE W/W%: NA **VAPOR DENSITY** (AIR=1): NA EVAPORATION RATE (=1): NA **SOLUBILITY IN WATER:** Insoluble **APPEARANCE & ODOR:** Fine white powder. Faint odor in bulk.

SECTON IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 304°C/580°F FLAMMABLE LIMIT AIR VOL%: Lower - NA Upper - NA AUTOIGNITION TEMPERATURE: NE EXTINGUISHER METHOD: Water, carbon dioxide, dry chemical. 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. UNUSUAL FIRE AND EXPLOSION HAZARDOUS: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Firefighters should wear self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eyes or skin (no absorption); inhalation of dusts. CARCINOGENICITY: None of the components of this material are listed by IARC, NTP, OSHA, OR ACIGH as carcinogens.

TARGET ORGANS: For Polymer: None Listed. For decomposition product Methyl Methacrylate Monomer: Nose, liver, and kidneys. For Dialkyl Phthalate: None Listed. For Trade Secret: None Listed. EFFECTS OF OVER EXPOSURE: It is not known to cause significant health problems. OSHA classifies this material as particulates not otherwise classified. Avoid inhalation of dust. Keep dust out of eyes to prevent possible irritation. EMERGENCY AND FIRST AID PROCEDURES: INHALATION: Remove to fresh air. Get medical help if discomfort persists. EYES: Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists. SKIN: Wash with soap and water. Get medical help if discomfort persists. INGESTION: Rinse mouth out with water. Call doctor if amount was large. CLOTHING: Wash thoroughly before reuse. TREATMENT: Treat symptoms after thorough decontamination.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING: Health: 1 Flammability: 1 Reactivity: 0 Personal Protective Equipment: Gloves and Safety Glasses or Chemical Splash Goggles.

SECTION VI - REACTIVITY DATA

STABILITY: Stable CONDITIONS TO AVOID: Heating above 240°C, 464°F. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS: Methacrylate Monomers and Oxides of Carbon when burned. HAZARDOUS POLYMERIZATION: Will not occur. CONDITIONS TO AVOID: High temperatures and strong oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. ENVIRONMENTAL EFFECTS: AQUATIC TOXICITY: For Methyl Methacrylate Monomer: Estimate of 96 hours median Threshold limit (TLm₉₆): 100-1000 ppm. Flathead minnows and goldfish TLm₂₄: 420 ppm. Bluegills TLm₂₄: 368 ppm.; For Dialkyl Phthalate: 96 hours (96-h) LC₅₀, Flathead minnow: 10-100 ul/L.

96-h LC₅₀, Water flea: 10-100 ul/L; 75 mg/l. 48-h LC₅₀, Golden orfe (minnow): 53 mg/l 61 mg/l. OXYGEN DEMAND: For

Dialkyl Phthalate: COD: 2.10 g/g; 1.66g/g. BOD: 2.00 G/G. **PLANT GERMINATION:** For Dialkyl Phthalate: No adverse effect at: Ryegrass: 10 ul/l/ Radish: 10 ul/l. Lettuce: 10 ul/l. PLANT SEEDLING: For Dialkyl Phthalate: No adverse effects at: Marigold: > 100 ul/l. Radish: > 100 ul/l. Corn: > 100 ul/l. Lettuce: > 100 ul/l. WASTE DISPOSAL METHOD: Contains a Dialkyl Phthalate, contaminated product may be a RCRA/OSHA hazardous waste (40 CFR Part 261 and 20 CFR Part 1910). Incinerate materials in accordance with Federal, State, and Local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Use type for Particulates Not Otherwise Classified, if needed. VENTILATION: Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers. PROTECTIVE GLOVES: If hot plastic is handled. EYE PROTECTION: Safety glasses or chemical splash goggles. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: High temperature processing equipment should be well ventilated.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool dry place. Keep container closed to prevent water absorption and contamination. OTHER PRECAUTIONS: Wash face and hands thoroughly with soap and water after use and before eating, drinking, smoking or applying cosmetics.

Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Durabase Powder Company Identification: Reliance Dental Mfg., LLC. 5805 W. 117th Place Alsip, IL 60803

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

Section 2 - Hazards Identification

Category

Classification of the substance or mixture Hazard Class – Physical, Health, Environmental

Eye Damage/Irritation	2A
Skin sensitizer	1
Repoductive 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

P201

P202



Signal Word Warning Hazards Statements

H402

- H317 May cause an allergic skin reaction
- H320 Causes eye irritation
- H361 Suspected of damaging fertility of the unborn child

Harmful to aquatic life

P240 Ground and bond container and receiving equipment

read and understood

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

Obtain special instructions before use

P264 Wash hands and exposed skin thoroughly after handling

Do not handle until all safety precautions have been

Precautionary Statements-Prevention, Response & Disposal

- 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

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Durabase Powder

Section 3 - Composition, Information on Ingredients						
Item 01 02 03	Chemical Name Polymethyl Methacryla Diethyl Phthalate Benzoyl Peroxide	CAS # te 9011-1 84-66- 94-36-	14-7 2	WT/WT% 80 - 90 10 – 20 1 – 5	GHS Ratings Eye damage/Irritation 2B(H320) Eye damage/Irritation 2B(H320) Reproductive Toxicity 2 (H361) Aquatic Toxicity A3 (H402) Eye damage/Irritation 2A(H319)	
03	Denzoyi Peroxide	94-30-	0 1-5		Skin Sensitizer 1 (H317)	
		Se	ection 4 - Firs	t Aid Measures		
Genera	al advice	Provide the SD	S to medical pe	ersonnel for treatr	ment.	
Inhalat	tion:	Remove victim	to fresh air. S	eek immediate m	nedical attention.	
Eye Co		If product gets i occurs, contact		sh with lukewarm	water for at least 15 minutes. If irritation	
Skin C	i	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.				
Clothir	ng:	Remove contar	ninated clothing	g, wash thorough	ly before reuse.	
Ingesti		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.				
		Sect	ion 5 - Fire F	ighting Measur	es	
Suitable Extinguishing Media: Water, Chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide.				tant) foam, dry chemical, or carbon		
Unsuit	able Extinguishing Medi	a:	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.						
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 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.

Evironmental 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 exhause ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

Conditions for Sate 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		5 mg/m3 TWA	NIOSH: 5 mg/m3 TWA
84-66-2			
Benzoyl Peroxide	5 mg/m3 TWA	5 mg/m3 TWA	NIOSH: 5 mg/m3 TWA
94-36-0	-	-	-

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

APPEARANCE:
ODOR:
FLASH POINT:
FLAMMABLE LIMIT (AIR VOLUME %)
EVAPORATION RATE
BOILING RANGE (LOW-HIGH)
SPECIFIC GRAVITY:

ADDEADANCE.

Fine pink pigmented powder. Faint odor in bulk. 579°F, 304°C 0% No data available. 295°C 0.00

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

Section 11 - Toxicological Information					
MIXTURE TOXICITY Component Toxicity Routes of Exposure:	Inhalation,	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 None	Description	%Weight	Carcinogen Rating No data available		
Section 12 - Ecological Information					
Component Ecotoxicity Diethyl Phlthalate:96Hr LC50 Pimphales promelas: 17 mg/L (flow-through): 96 Hr LC50 Pimephales promelas: 16.8 mg/L (static): 96 Hr LC50 Lepomis macrochinus: 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 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 DOT IATA IMDG	Proper Shipping Name Not Regulated, Polymer, NOS Not Regulated, Polymer, NOS Not Regulated, Polymer, NOS	UN Number	Packing Group	Hazard Class

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 Califonia as carcinogenic or a reproductive toxin:

-None

SARA 313 Benzoyl Peroxide 94-36-0

US State Right-to-know Regulations

-None

Country

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

Section 16 - Additional Information

HAZARDOUS MATERIAL IDENTIFICATION SYST	FEM (HMIS) RATING:
HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTIVE EQUIPMENT:	В
NATIONAL FIRE PROTECTION ASSOCIATION (N	NFPA) HAZARD IDENTIFICATION RATING:
HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
HMIS & NFPA Hazard Rating	

HMIS & NFPA Hazard Rating

*= Chronic Health Hazard

- 0 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE3 = 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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