

Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Duralay II Powder

Company Identification:

Reliance Dental Mfg., Co.

5805 W. 117th Place

P.O. Box 38

Worth, IL 60482

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

Section 2 - Composition, Information on Ingredients

Item	Chemical Name	CAS #	WT / WT %
01	Polymer	9010-88-2	60.0-100.0
02	Polymer	9003-42-3	0.0-30.0

ACGIH			OSHA Company		Recommendation	SKIN
ITEM	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING		
01	10 mg/m ₃	NE	15 mg/m ₃	NE	15 mg/m ₃	NE
02	10 mg/m ₃	NE	15 mg/m ₃	NE	15 mg/m ₃	NE

Section 3 - Hazards Identification

EMERGENCY OVERVIEW:

WARNING:

For Polymer:

Acute Hazards:	Eyes:	OSHA classifies this material as Particulates, Not Otherwise Classified. May be irritating to the eyes by gross overexposure, no matter how generated. Symptoms of overexposure may include redness, itching, irritation, and watering. Keep dust out of eyes.
	Ingestion:	Not expected to cause any harmful effects. Ingestion of large amounts may be irritating if product is swallowed, may cause nausea, headache, vomiting and/or diarrhea.
	Skin:	May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.
	Inhalation:	May be irritated by gross overexposure, no matter how generated.
Chronic Hazards:		None known.

CARCINOGENICITY:

None of the other components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

PRIMARY ROUTES OF ENTRY:

Inhalation, Skin or Eyes.

Section 4 - First Aid Measures

EMERGENCY AND FIRST AID PROCEDURES:

EYES:	If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
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 4 - First Aid Measures Continued

INHALATION:	Remove to fresh air. Seek immediate medical attention.
SKIN:	If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.
CLOTHING:	Remove contaminated clothing, wash thoroughly before reuse.
TREATMENT:	Treat symptoms conventionally, after thorough decontamination.

Section 5 - Fire Fighting Measures

FLASH POINT:	304 °C, 580 °F
FLAMMABLE LIMIT, AIR VOL%	LOWER: NA UPPER: NA
AUTOIGNITION TEMPERATURE:	NE
EXTINGUISHER METHOD:	Water, carbon dioxide, dry chemical.
FIRE AND EXPLOSION HAZARDS:	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
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.
EXPLOSION HAZARD:	Firefighters should wear self-contained breathing apparatus.
SENSITIVE TO MECHANICAL IMPACT:	For Polymer: No.
SENSITIVE TO STATIC DISCHARGE:	For Polymer: No.

Section 6 - Accidental Release Measures

ACCIDENTAL RELEASE:	Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves). Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.
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Section 7 - Handling and Storage

PRECAUTIONS FOR HANDLING:	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
PRECAUTIONS FOR STORAGE:	Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Keep container closed to prevent water absorption and contamination.
INDUSTRIAL HYGIENE PRACTICES:	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.

Section 8 - Exposure Controls, Personal Protection

VENTILATION:	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
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good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

Section 8 - Exposure Controls, Personal Protection Continued

RESPIRATORY PROTECTION:	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.
EYE PROTECTION:	Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.
PROTECTIVE GLOVES:	If anticipated that prolonged & repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.
OTHER PROTECTIVE EQUIPMENT:	No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. An eyewash station and a safety shower are recommended. High temperature processing equipment should be well ventilated.

Section 9 - Physical and Chemical Properties

APPEARANCE:	Fine clear to pigmented powder.
ODOR:	Faint odor in bulk.
pH:	NA
ODOR THRESHOLD:	ND
BOILING POINT:	NA
FREEZING POINT:	NA
VISCOSITY:	NA
SPECIFIC GRAVITY (H₂O=1):	ND
VAPOR PRESSURE:	NA
PERCENT VOLATILE W/W%:	NA
VAPOR DENSITY (AIR=1):	NA
EVAPORATION RATE (BuAc =1):	NA
SOLUBILITY IN WATER:	Insoluble.
COEFFICIENT OF WATER/OIL DISTRIBUTION:	ND

Section 10 - Stability and Reactivity

CONDITIONS TO AVOID:	Heating above 240 °C, 464 °F.
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Methacrylate Monomer and Oxides of Carbon when burned.
HAZARDOUS POLYMERIZATION:	MAY OCCUR: WILL NOT OCCUR: X
STABILITY:	UNSTABLE: STABLE: X

Section 11 - Toxicological Information

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There is toxicology data for the components of

the product, which is found in scientific literature. This data has not been presented in this document.

MUTAGENICITY DATA: This product is not reported to produce mutagenic effects in humans.

Section 11 - Toxicological Information Continued

REPRODUCTIVE TOXICITY DATA:

Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.

Section 12 - Ecological Information

AQUATIC TOXICITY: There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

ENVIRONMENTAL FATE: There is no specific data available for this product.

Section 13 - Disposal Considerations

WASTE DISPOSAL METHOD:	Dispose of properly in accordance with Federal, State, and Local regulations.
DISPOSAL OF EMPTY CONTAINERS:	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.

Section 14 - Transport Information

DOT/UN SHIPPING NAME:	POLYMER, NOI
DOT/UN CLASS:	
NA/UN NUMBER:	
PACKING GROUP:	
LABEL:	
IMDG CLASS:	
IMDG PG:	
CERCLA RQ:	

Section 15 - Regulatory Information

SARA Reporting Requirements:	NA
SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.
TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory. For use in FDA regulated products only.
CERCLA Reportable Quantity (RQ):	NA
Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).
Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.
State Regulatory Information:	This product may contain components that are covered under specific state criteria.

RISK STATEMENTS:
SAFETY STATEMENTS:

R36/37/38 – Irritating to eyes, respiratory system and skin.
S3 – Keep in a cool place.
S7 – Keep container tightly closed.
S9 – Keep container in a well-ventilated place.
S20 – When using do not eat or drink.
S 29 – Do not empty into drains.
S37/39 – Wear suitable gloves and eye/face protection.

Section 16 - Additional Information

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0
PERSONAL PROTECTIVE EQUIPMENT: Gloves and Safety Glasses or Chemical Goggles.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0

ABBREVIATIONS:

NA:	Not Applicable	ND:	Not Determined	NE:	Not Established
ppm:	parts per million	G:	Gallon	mg:	Milligram
L:	Liter	gm:	Gram	mol:	Mole
kg:	Kilogram	µ:	Micro	mm:	Millimeter p Pico
Pa:	Pascals	LC:	Lethal Concentration	LD:	Lethal Dose
TC:	Toxic Concentration	TD:	Toxic Dose	BOD:	Biological Oxygen Demand
COD:	Chemical Oxygen Demand			Lo:	Lowest
ThOD:	Theoretical Oxygen Demand			Tlm:	Threshold Limit
H:	Hours	M:	Months	D:	Days
Y:	Years	W:	Weeks		

ACGIH: American Conference of Governmental Industrial Hygienist
CPR: Controlled Product's Regulation
DSL: Canadian Domestic Substances List
NDSL: Canadian Non-domestic Substance List
IARC: International Agency for Research for Cancer
NOEL: No Observed Effect Level
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
TLV: Threshold Limit Value

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.