

# Safety Data Sheet

## Section 1 - Chemical Product and Company Identification

**Product Name:** Dura Glaze and Thinner

**Company Identification:**

Reliance Dental Mfg., Co.  
5805 W. 117<sup>th</sup> 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

### Hazardous Components (Specific Chemical Identity;

Common Name(s):	%:	CAS REG. NO.:	HAZARD	
			EINECS NO.	SYMBOLS
<b>R-HRASES</b>				
Methyl Ethyl Ketone (Butanone)	> 70	78-93-3	201-159-0	F, Xi
R11, 36, 66/67				

### Non-Hazardous Components (Acrylic Copolymers – Proprietary pigments)

Titanium Dioxide (for some colors)	< 2	13463-67-7	236-675-5
Red Iron Oxide Pigment (for some colors)		1332-37-2	215-570-8
Yellow Iron Oxide Pigment (for some colors)		51274-00-1	257-098-5
Black Iron Oxide Pigment (for some colors)		12227-89-3	235-442-5
Partially unknown (including non-hazardous)			

## Section 3 - Hazards Identification

### Hazard Symbol Definitions:

F:	Highly Flammable
Xi:	Irritant

### Risk (R) Phrase Definitions:

R11:	Highly Flammable.
R36:	Irritating to eyes.
R66:	Repeated exposure may cause skin dryness or cracking.
R67:	Vapours may cause drowsiness and dizziness.

### INHALATION/INGESTION:

Solvent vapor or mist can cause headache, nausea, dizziness, incoordination, stupor, irritation of nose, throat, lungs. Irritation of digestive tract. Nervous system depression (fatigue, drowsiness, dizziness).

### SKIN/EYES:

Burning, tearing, redness and swelling of eyes, transient corneal injury, drying and cracking of skin.

## Section 4 - First Aid Measures

### Hazard Symbol Definitions:

F: Highly Flammable  
Xi: Irritant

### Risk (R) Phrase Definitions:

R11: Highly Flammable.  
R36: Irritating to eyes.  
R66: Repeated exposure may cause skin dryness or cracking.  
R67: Vapours may cause drowsiness and dizziness.

### INHALATION/INGESTION:

Solvent vapor or mist can cause headache, nausea, dizziness, incoordination, stupor, irritation of nose, throat, lungs. Irritation of digestive tract. Nervous system depression (fatigue, drowsiness, dizziness) SKIN/EYES: Burning, tearing, redness and swelling of eyes, transient corneal injury, drying and cracking of skin.

## Section 5 - Fire Fighting Measures

**Flash Point** (Method Used): -4C/25F S.F.C.C. **Auto Ignition Temp:** 516C/961F

**Flammable Limits:** LEL: 2.0 est. UEL: 12.0 est.

**Extinguishing Media:** Foam "Alcohol" Foam CO2 Dry Chemical Water Spray Other Sand. For larger fires do not use water. **Extinguishing Media that must not be used for safety reasons:** For larger fires

- WATER / WATER JET **Special Protective Equipment:** Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

**Special Fire Fighting Procedures:** Use water spray to cool containers.

**Unusual Fire and Explosion Hazards:** Vapors can travel to a source of ignition and flash back. Material can form explosive vapors with air.

## Section 6 - Accidental Release Measures

### Personal Precautions:

Appropriate protective equipment must be worn for handling spill, see Section 8. If exposed to material, see Section 4.

### Environmental Precautions:

Warning - Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. Note: Spills on porous surfaces can contaminate ground water.

### Methods for Clean up of spills

For EU:

Spill Clean up: Eliminate all ignition sources. Evacuate personnel to safe areas. Ventilate the area. Floor may be slippery, use caution. Soak up with inert absorbent material (Paper towel, sand, silica gel, sawdust). Avoid breathing vapor. Wear MSHA/NIOSH approved respirator. Note: Spills on porous surfaces can contaminate ground water. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations. For small quantity spills, allow solvent in paper towel to evaporate in well ventilated areas or outdoors (preferred). CONTAMINATED PACKAGING: Empty containers should be taken for local recycling or waste disposal.

For US Regulations:

Eliminate all ignition sources. Evacuate personnel to safe areas. Ventilate the area. Floor may be slippery, use caution. Soak up with inert absorbent material (Paper towel, sand, silica gel, sawdust). Avoid

breathing vapor. Wear MSHA/NIOSH approved respirator. Note: Spills on porous surfaces can contaminate ground water.

**NORMAL DISPOSAL:** Waste Classification: Methyl Ethyl Ketone (78-93-3), (US regulation - 40 CFR 261.20-.24.) For discard, this is classified as a hazardous waste with the characteristic of ignitability and toxicity. RCRA #D001. Reportable quantity is 100 lbs.(US regulation - 40 CFR 302) Incinerate liquid and contaminated solids in accordance with local, state, and federal, national regulations. (See US regulation - 40 CFR 268). For small quantity spills, allow solvent in paper towel to evaporate in well ventilated areas or outdoors (preferred).

**CONTAMINATED PACKAGING:** Empty containers should be taken for local recycling or waste disposal.

## Section 7 - Handling and Storage

**Precautions to Be taken in Handling:** Keep properly ventilated. Ground all containers when transferring material. Keep away from open flame of bunsen burner or furnace. Keep containers tightly sealed. Periodically clean neck of bottle of resinous build up (clean inside of cap) to maintain proper seal. Do not smoke when using. Add thinner as needed, to keep proper thinness of material.

**Precautions to Be taken in Storage:** Limit storage of flammable material to approved areas. Keep properly ventilated. Store bottles away from heat. Keep away from open flame of bunsen burner or furnace. Keep containers tightly sealed. Periodically clean neck of bottle of resinous build up (clean inside of cap) to maintain proper seal. Avoid storing near acids, chlorinated solvents. Add thinner as needed, to keep proper thinness of material.

**Storage Temp.:** 60C/140F max.

**Other Precautions:** STEL: 125 ppm MEK. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Emptied containers contain residue. Follow all MSDS and labels. Keep away from spark.

## Section 8 - Exposure Controls, Personal Protection

**Respiratory Protection** (Specify Type):  
None required if good ventilation is maintained. Otherwise self-contained breathing apparatus (pressuredemand, MSHA/NIOSH - approved or equivalent.)

**Ventilation:** Local Exhaust Mechanical (*General*) Special Other  
Use explosion proof local exhaust ventilation with min. capture velocity of 100 ft/min at point of vapor evolution.

**Protective Gloves:** Chemical-resistant only **Eye Protection:** Chemical-resistant goggles

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**Other Protective Clothing or Equipment:** Chemical-resistant apron or other impervious cloth

**Work/Hygienic Practices:** Eyewash, shower, wash clothing if spilled on. Wash hands with soap and water.

### OCCUPATIONAL EXPOSURE LIMITS:

**Hazardous Components** (Specific Chemical Identity;

Common Name(s):	CAS REG. NO.:	EINECS NO.	OSHA PEL:	ACGIH TLV:
Methyl Ethyl Ketone (Butanone)	78-93-3	201-159-0	200 ppm	200 ppm

**Non-Hazardous Components** (Acrylic Copolymers – Proprietary pigments)

Titanium Dioxide (for some colors)	13463-67-7	205-685-1		
Red Iron Oxide Pigment (for some colors)	1332-37-2	250-830-4	15 mg/m3	10
mg/m3				
Yellow Iron Oxide Pigment (for some colors)	51274-00-1	220-509-3	15 mg/m3	10
mg/m3				
Black Iron Oxide Pigment (for some colors)	12227-89-3	236-675-5	15 mg/m3	10
mg/m3				
Partially unknown (including non-hazardous)				

## Section 9 - Physical and Chemical Properties

<b>Boiling Point:</b> Initial 80C/176F	<b>Melting Point:</b> -86C/-123F
<b>Evaporation Rate</b> (Butyl Acetate = 1): > 1	<b>Viscosity:</b> 80 cps max
<b>Vapor Pressure</b> (mm Hg): 70 mmHg @ 20C / 68F	<b>Vapor Density</b> (AIR = 1): > 1
<b>Specific Gravity</b> (H2O = 1): 0.95	<b>% Volatile</b> (by weight): > 80
<b>Solubility in Water:</b> Slightly, as dry film	<b>Form:</b> liquid
<b>Odor:</b> Sweet, sharp odor;	<b>Color:</b> Assorted colors for pigmented stains (ie. Yellow, Blue, Red); Thinner, glaze – Clear

## Section 10 - Stability and Reactivity

<b>Stability:</b> Stable	<b>Conditions to Avoid:</b> Avoid contacts with ignition sources (e.g. sparks, open flame, heated surfaces)
<b>Incompatibility</b> (Materials to Avoid): Strong oxidizing agents, strong acids and strong bases.	<b>Hazardous Decomposition or Byproducts:</b> Oxides of carbon. May yield acrylic monomers.
<b>Hazardous Polymerization:</b> Will Not Occur	<b>Conditions to Avoid:</b> Not Applicable

## Section 11 - Toxicological Information

<b>Route(s) of Entry:</b>	Inhalation, Skin, Ingestion
<b>Health Hazards</b> (Acute and Chronic):	May cause nervous system depression (fatigue, drowsiness, dizziness), headache, nausea, stupor, Burning, tearing, redness and swelling of eyes, drying and cracking of skin.
<b>Carcinogenicity:</b>	NTP, IARC Monographs, OSHA Regulated, No, but Proposition 65 (CA)-Warning - This product contains trace amounts of heavy metals which the State of Calif. has determined are carcinogens or cause reproductive toxicity. (As, Ba, Sb, Cd, Pb, Hg, Se, Zn and/or Ni are present in trace PPM.) Cu in higher amt.
<b>Signs and Symptoms of Exposure:</b>	
INHALATION/INGESTION:	Solvent vapor or mist can cause headache, nausea, dizziness, incoordination, stupor, irritation of nose, throat, lungs. Irritation of digestive tract. Nervous system depression (fatigue, drowsiness, dizziness)
SKIN/EYES:	Burning, tearing, redness and swelling of eyes, transient corneal injury, drying and cracking of skin.
<b>Medical Conditions</b> -Generally Aggravated by Exposure:	None Known
<b>Emergency and First Aid Procedures:</b>	See Sect. 4 - First Aid Measures
<b>Toxicity Data:</b>	Data for MEK: Rat - Oral LD50: 3.3 g/kg, Rabbit - Dermal LD50: >8 ml/kg Rat - Inhalation LC50: >2000 ppm / 2hrs <b>12.</b>

## Section 12 - Ecological Information

### Aquatic Toxicity for Fish:

The U.S. EPA has conducted QSAR analysis to estimate aquatic toxicity values for MEK. This analysis assumes pH 7.0, hardness less than or equal to 180.0 mg/L as CaCo<sub>3</sub>, flow through methods, and mean measured concentrations. The estimated fish chronic toxicity value is 200 mg/L.

Warning - Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. Note: Spills on porous surfaces can contaminate ground water.

## Section 13 - Disposal Considerations

**EU: NORMAL DISPOSAL:** Methyl Ethyl Ketone (78-93-3) For discard, this is classified as a hazardous waste with the characteristic of ignitability and toxicity. Incinerate liquid and contaminated solids in accordance with local, state, and federal, and national regulations. CONTAMINATED PACKAGING: Empty containers should be taken for local recycling or waste disposal.

**US Regulations: NORMAL DISPOSAL:** Waste Classification: Methyl Ethyl Ketone (78-93-3), 40 CFR 261.20-.24. For discard, this is classified as a hazardous waste with the characteristic of ignitability and toxicity. RCRA #D001. Reportable quantity is 100 lbs.(40 CFR 302) Incinerate liquid and contaminated solids in accordance with local, state, and federal, and national regulations. (See 40 CFR 268). CONTAMINATED PACKAGING: Empty containers should be taken for local recycling or waste disposal.

## Section 14 - Transport Information

### DOT / UN Shipping Name: *(Alternative names)*

	Flammable Liquid, n.o.s. (contains Methyl Ethyl Ketone)	Paint	Consumer Commodity
NA / UN Number:	UN1993	UN1263	UN8000 -for IATA
DOT / UN Class:	3	3	9 -for IATA
Packing Group	II	II	
Label:	Flammable Liquid	Flammable Liquid	Outside USA use: "Miscellaneous" label Inside USA - Ground ship use: "ORM-D consumer commodity" label (*)

**\*Note:** These are alternative shipping names that can be used depending on quantity and size.

\* For Consumer Commodity shipping please follow local government regulations.

## Section 15 - Regulatory Information

### EC REGULATIONS:

#### Hazard Symbol Definitions:

F: Highly Flammable

Xi: Irritant

#### Risk (R) Phrase Definitions:

R11: Highly Flammable.

R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

#### Safety (S) Phrase Definitions:

S2: Keep out of the reach of children.

S9: Keep container in a well-ventilated place.  
S16: Keep away from sources of ignition-No smoking.  
S24: Avoid contact with skin.  
S25: Avoid contact with eyes.  
S26: in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37: Wear suitable gloves.  
S46: If swallowed, seek medical advice immediately and show this container or label.  
S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets.  
This data sheet was prepared in accordance with Directive 91/155/EEC, 2001/58/EEC.

#### **UNITED STATES REGULATIONS:**

This product is considered hazardous under OSHA Hazard Communication. Standard (29CFR 1910.1200). SARA TITLE III: Sect 313 (40CFR372) above deminimus concentrations (Methyl methacrylate ((80-62-6)), Methyl Ethyl Ketone (78-93-3). CERCLA (40CFR302.4) regulated components: MMA (RQ 1000 lbs), MEK (RQ 5000 lbs) This MSDS conforms with ANSI Z400.1-2004.

#### **CANADIAN REGULATIONS:**

This product is a 'controlled product' under Canadian Workplace Hazardous Materials Information System (WHMIS) WHMIS Classification: Class B: Division 2 - Flammable Liquid. 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.

### Section 16 - Additional Information

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

##### **Hazard Rating**

4= Extreme Toxicity = 2

3= High Fire = 3

2= Moderate Reactivity = 0

1= Slight

0= Insignificant Personal Protection = B

\*\* See Sect 3, 4, 5

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Reliance Dental Mfg. Co. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*