

## Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**Product Name:** Duraglaze Thinner

**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

Flammable Liquid

Eye Irritation

Specific Target Organ Toxicity - Single Exposure

##### Category

2

2

3

**Label Elements** - Pictograms, Signal Word, Hazard Statements, Precautionary Statements, & Supplemental Information



**Signal Word:** Danger

#### Hazard Statements

- H225 Highly flammable liquid and vapor
- H319 May cause serious eye irritation
- H336 May cause drowsiness and dizziness

#### Precautionary Statements – Prevention, Response, Disposal

- P210 Keep away from heat/sparks/open flames/hot surfaces  
-No Smoking
- P235 Keep cool
- P240 Ground and bond container and receiving equipment
- P241 Use explosion-proof electrical/ventilating/light/.../equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash hands and exposed skin thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P303+P361 IF ON SKIN-Wash (or hair), remove / take off immediately all  
+P353 contaminated clothing. Rinse skin with water with soap and water
- P304+P312 IF INHALED: Remove victim to fresh air and keep at rest in a  
position comfortable for breathing; call a POISON CENTER or  
doctor/physician if you feel unwell.
- P305+P351 IF IN EYES: Rinse continuously with water for several  
+P338 minutes. Remove contact lenses if present and easy to do continue  
rinsing.
- P337+313 If eye irritation persists: Get medical advice / attention.
- P340 Remove victim to fresh air and keep at rest in a position comfortable  
or breathing.
- P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS  
for  
extinction.

#### **[Storage]:**

- P403+233 Store in a well ventilated place. Keep container tightly closed.
- P405 Store locked up.

#### **[Disposal]:**

- P501 Dispose of contents / container in accordance with local / national  
regulations.

### Section 3 – Composition / Information on Ingredient

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient.Chemical Designations	Weight %	GHS Classification	Notes
Butanone – CAS No. 0000078-93-3	70-85	Flam. Liquid 2-H225; Eye Irrit.2-H319; STOT SE 3:H336	(1) (2)

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit

[3] PBT-substance or vPvB –substance

\*The full texts of the phrases are shown in Section 16

### Section 4 - First Aid Measures

**General Advice:** Provide the SDS to medical personnel for treatment

**Inhalation:** Remove victim to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious please in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eye Contact:** If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

**Skin Contact:** 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.

**Clothing:** Remove contaminated clothing, wash thoroughly before reuse.

**Ingestion:** If ingested, do not induce vomiting. Get medical attention immediately. Keep at rest.

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

**Overview** INHALATION/INGESTION: Solvent vapor or mist can cause headache, nausea, dizziness, incoordination, stupor, irritation of nose, throat, and 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.

Medical Conditions - Generally Aggravated by exposure: pre-existing skin disorders, respiration, liver, kidney & Wilson's disease. Exposure to solvent vapor concentrations from the component solvents in excess of stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidney, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

**Inhalation:** May cause drowsiness or dizziness.

**Eyes:** Causes serious eye irritation.

## Section 5 - Fire Fighting Measures

**Suitable Extinguishing Media:** Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray. Do not use water jet.

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

**Specific Hazards Arising from the Chemical:** Hazardous decomposition: None at ambient temperature. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical / ventilating/ light / equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust / fume/ gas/ mist/ vapors / spray.

**Protective Equipment and Precautions for Firefighters:** Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. Use water spray to cool containers. Do not use water on open flame. Dike fire area gently with fine, dry sand to extinguish fire. Do not use halogenated hydrocarbon extinguishing agents.

**Special Fire Fighting Procedures:** Vapors can travel to a source of ignition and flash back. Material can form explosive vapors with air. Avoid contact with water.

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## 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. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled 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.

#### 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).

**Methods for Cleaning Up:** Maximize ventilation (open doors and windows) and secure all sources of ignition. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. 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), 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 regulations. (See 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 for safe Handling

#### Advice on Safe Handling:

Store in accordance with the National Fire Protection Association's publications NFPA 30, Flammable and Combustible Liquids Code, 29 CFR1910.106 applies to the handling, storage, and use of flammable and combustible liquids. See section 2 for further details (Prevention).

#### Conditions for Safe Storage, Including any Incompatibilities

##### Storage Conditions:

Handle containers carefully to prevent damage and spillage. Store container in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Store in accordance with National Fire Protection Association recommendations. Product residue may remain in empty containers.

##### Incompatible Materials:

Water, acids, alkalis, chlorinated solvents.

## Section 8 - Exposure Controls, Personal Protection

### Exposure

Chemical Name	ACGIH	NIOSH	OSHA
Butananone 0000078-93-3	50 ppm TWA; 100 ppm STEL	200 ppm TWA; 590 mg/m <sup>3</sup> TWA 300 ppm (885 mg/m <sup>3</sup> ) ST	200 ppm TWA; 590 mg/m <sup>3</sup> TWA

### Carcinogen Data

Chemical Name	OSHA	NTP	IARC
Butananone 0000078-93-3	Select Carcinogen: No	Known: No Suspected: No	Group 1: No Group 2a: No Group 2b: No Group 3: No Group 4: No

### Personnel Protective Equipment (PPE)

#### Respiratory Protection:

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

#### Eye/Face Protection:

Chemical-resistant goggles.

#### Skin and Body Protection

Use a chemical-resistant apron or other impervious clothing, and rubber boots if necessary, to avoid contaminating regular clothing and shoes and to prevent skin contact. Chemical resistant gloves.

#### Engineering Controls:

Provide adequate ventilation. Where reasonable practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

#### 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.

## Other Work Practices

See section 2 for further details – [Prevention]

## Section 9 - Physical and Chemical Properties

<b>Appearance:</b>	Clear, colorless	<b>Physical State:</b>	Liquid
<b>Odor:</b>	Sweet/sharp odor	<b>Odor Threshold:</b>	Not determined
<b>PH:</b>	Not measured	<b>Melting Point/</b>	
<b>Initial boiling point</b>		<b>Freezing point:</b>	-86 C/-123 F initial
<b>and boiling range:</b>	80 C/ 176 F initial	<b>Flash Point:</b>	-4 C/25 F (SFCC)
<b>Evaporation Rate (Ether=1):</b>	>1.0 (Butyl Acetate=1)	<b>Flammability (solid,gas):</b>	Not applicable
<b>Upper/Lower Flammability or</b>	Lower Explosive Limit: 1.8	<b>Vapor pressure (Pa):</b>	80 mm Hg @20C/68F
<b>Explosive Limits:</b>	Upper Explosive Limit:11.5	<b>Vapor Density:</b>	>1.0
<b>Specific Gravity:</b>	0.95 -1.0 (H2O = 1)	<b>Solubility in Water:</b>	Slight
<b>Partition Coefficient</b>		<b>Auto-ignition Temp.:</b>	516 C/961 F
<b>n-octanol/water (Log Kow):</b>	Not measured	<b>Viscosity (cSt):</b>	400 cPs max
<b>Decomposition temperature:</b>	Not measured		

**Other information:** No other relevant information.

## Section 10 - Stability and Reactivity

**Reactivity:** Hazardous Polymerization will not occur.

**Chemical Stability:** Stable under normal circumstances.

**Possibility of Hazardous Reactions:** No Data Available.

**Conditions to Avoid:** Avoid contact with water, mineral acids, chlorinated solvents.

**Incompatible Materials:** Water, acids, alkalis, chlorinated solvents.

**Hazardous Decomposition Products:** None at ambient temperature.

## Section 11 - Toxicological Information

**Acute toxicity:** Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50, mg/kg	Skin LD 50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Butanone 78-93-3	2.737.00, Rat Category : 5	6,480.00, Rabbit Category: NA	32.00, Mouse Category: NA	No Data Available	No Data Available

**Note:** When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute toxicity Estimate).

Classification	Category	Hazard Description
Acute Toxicity (Oral)	---	Not Applicable
Acute Toxicity (Dermal)	---	Not Applicable
Acute Toxicity (Inhalation)	---	Not Applicable
Skin Corrosion/Irritation	---	Not Applicable
Serious Eye Damage/Irritation	2	Causes serious eye irritation
Respiratory Sensitization	---	Not Applicable
Skin Sensitization	---	Not Applicable
Germ Cell Mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive Toxicity	---	Not Applicable
STOT – Single Exposure	3	May cause drowsiness or dizziness
STOT – Single Exposure	---	Not Applicable
STOT – repeated exposure	---	Not Applicable
Aspiration Hazard	---	Not Applicable

## Section 12 - Ecological Information

**Toxicity:** No additional information provided for this product. See Section 3 for Chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 Crustacea, mg/l	ErC50 Algae, mg/l
Butanone –(78-93-3)	400.00, Cyprinodon Variegatus	520.00 Daphnia Magna	500.00 (96hr), Skeletonema Costatum

**Persistence and Degradability:** There is no data available on the preparation itself.

**Bioaccumulative Potential:** Not measured.

**Mobility in Soil:** No data available.

**Results of PBT & vPvB Assessment:** This product contains no PBT/vPvB chemicals.

**Other adverse effects:** No data available.

## Section 13 - Disposal Considerations

### Waste Treatment Methods

**Disposal of Wastes:** Observe all Federal, State and Local regulations when disposing of this substance.

## Section 14 - Transport Information

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO / IATA</b>
<b>UN Number</b>	UN1993	UN1993	UN1993
<b>UN Proper Shipping Name</b>	Un1993, Flammable Liquids, n.o.s.(Ethyl Methyl Ketone)	Flammable Liquid, n.o.s. (Ethyl Methyl Ketone)	Flammable Liquid, n.o.s. (Ethyl Methyl Ketone)
<b>Transport Hazard Class</b>	DOT Hazard Class: 3	IMDG: 3 Sub Class: Not Applicable	Air Class: 3
<b>Packing Group</b>	II	II	II
<b>Environmental Hazard</b>		Marine Pollutant: No	

**Special precautions for user:** No further information.

## Section 15 - Regulatory Information

<b>Regulatory Overview:</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.	
<b>Toxic Substance Control Act (TSCA):</b>	All components of this material are either listed or exempt from listing on the TSCA Inventory.	
<b>WHMIS Classification:</b>	B2 D2B	
<b>US EPA Tier II Hazards:</b>	Fire:	Yes
	Sudden Release of Pressure:	No
	Reactive:	No
	Immediate (Acute):	Yes
	Delayed (Chronic):	No
<b>EPCRA 311/312 Chemicals and RQs (LBS):</b>	Butanone (5,000.00)	
<b>EPCRA 302 Extremely hazardous:</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.	
<b>EPCRA 313 Toxic Chemicals:</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.	
<b>Proposition 65 – Carcinogens (.0.0%):</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.	
<b>Proposition 65 – Developmental Toxins (.0.0%):</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.	
<b>Proposition 65 – Female Repro Toxins (.0.0%):</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.	
<b>Proposition 65 – Male Repro Toxins (.0.0%):</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.	
<b>New Jersey RTK Substances (&gt;1%):</b>	Butanone	
<b>Pennsylvania RTK Substances (&gt;1%):</b>	Butanone	

<b><u>Country</u></b>	<b><u>Regulation</u></b>	<b><u>All Components Listed</u></b>
	EINECS	Yes

SARA	Hazard categories	Yes
TSCA	Inventory	Yes

## Section 16 - Additional Information

Hazardous Material Information System (HMIS) Rating		National Fire Protection Association (NFPA) HMIS & NFPA Hazard Rating	
HEALTH	2	HEALTH	2
FLAMMABILITY	3	FLAMMABILITY	3
PHYSICAL HAZARD	2	INSTABILITY	2
PERSONAL PROTECTION	B		

### 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 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 user has been advised of the possibility of such damages.*

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