

Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Duraglaze Thinner

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

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, CO₂, 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 ³ TWA 300 ppm (885 mg/m ³) ST	200 ppm TWA; 590 mg/m ³ 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

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

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

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO / IATA
UN Number	UN1993	UN1993	UN1993
UN Proper Shipping Name	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)
Transport Hazard Class	DOT Hazard Class: 3	IMDG: 3 Sub Class: Not Applicable	Air Class: 3
Packing Group	II	II	II
Environmental Hazard		Marine Pollutant: No	

Special precautions for user: No further information.

Section 15 - Regulatory Information

Regulatory Overview: The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification: B2 D2B

US EPA Tier II Hazards:

Fire:	Yes
Sudden Release of Pressure:	No
Reactive:	No
Immediate (Acute):	Yes
Delayed (Chronic):	No

EPCRA 311/312 Chemicals and RQs (LBS): Butanone (5,000.00)

EPCRA 302 Extremely hazardous: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Carcinogens (.0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Developmental Toxins (.0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Female Repro Toxins (.0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Male Repro Toxins (.0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%): Butanone

Pennsylvania RTK Substances (>1%): Butanone

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
	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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