

Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Duraglaze

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

Skin sensitizer

Specific Target Organ Toxicity - Single Exposure

Category

2

2

1

3

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



Signal Word: Danger

Hazard Statements

- H225 Highly flammable liquid and vapor
- H317 May cause an allergic skin reaction
- 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
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P302+P352 IF ON SKIN-Wash 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 minutes. Remove contact lenses if present and easy to do continue rinsing.
- P313 Get medical advice / attention.
- P321 Specific treatment (see information on this label).
- P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
- 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.
- P363 Wash contaminated clothing before reuse
- 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.

*Component names may have been omitted to protect confidential business information (CBI) in compliance with OSHA GHS HCS§ 1910.1200 Appendix E.

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)
Methyl Methacrylate CAS No. 0000080-62-6	0.10-1.0	Flam. Liquid 2-H225 STOT SE 3-H335; Skin Irrit. -H315; Skin Sens. 1-H317	(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

Section 4 - First Aid Measures

General Advice: Provide the SDS to medical personnel for treatment

Inhalation: Remove victim to fresh air. Seek immediate medical attention.

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. 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 materials was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media: Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

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

Specific Hazards Arising from the Chemical: Hazardous decomposition: Oxides of carbon. May yield acrylic monomers. 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

for firefighting if necessary. Do not enter fire area without proper protection. Fight fire from a safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Use water spray to cool unopened containers. Pressure relief system may plug with solids creating risk of overpressure.

Special Fire Fighting Procedures: Use a water spray or fog to reduce or direct vapors, and keep containers cool. Water may not be effective in actually extinguishing a fire involving this product. Do not enter fire area without proper protection. Fight fire from a safe location. Structural firefighters must wear SCBA and full protective equipment. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

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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.
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:

Strong oxidizers, strong acids and strong bases.

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
Methyl Methacrylate 0000080-62-6	50 ppm TWA; 100 ppm STEL	100 ppm TWA; 410 mg/m ³ TWA	100 ppm TWA; 410 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 3: No Group 4: No
Methyl Methacrylate 0000080-62-6	Select Carcinogen: No	Known: No Suspected: No	Group 1: No Group 2a: No Group 2b: No Group 3: Yes Group 4: No

Engineering Controls:

Provide adequate ventilation. Where reasonable practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Personnel Protective Equipment (PPE)

Respiratory Protection:

A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit 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 U.S. Osha 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 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.

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:	Clear, light yellow or colorless	Physical State:	Liquid
Odor:	Pungent, sweet odor	Odor Threshold:	Not determind
PH:	Not measured	Melting Point/Freezing point:	-122.8 F
Initial boiling point and boiling range:	175.3 F	Flash Point:	24.8 F/-4 C (TCC)
Evaporation Rate:	>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
Specific Gravity:	0.95 -1.0 (H2O = 1)	Vapor Density:	>1.0 (Air=1)
Partition Coefficient n-octanol/water (Log Kow):	Not measured	Solubility in Water:	Partially for resin, moderately for thinner
Decomposition temperature:	Not measured	Auto-ignition Temp.:	Not Measured
% Volatile:	>80%	Viscosity (cSt):	>30 sec (Zahn #1 cup)

Other information: No other relevant information.

Section 10 - Stability and Reactivity

Note: Materials listed as stable may become unstable upon depletion of inhibitors (such as mequinol or hydroquinone), contact the manufacturer for exact levels and instruction on inhibitor maintenance.

Chemical stability: Stable under normal circumstances.

Possibility of Hazardous reactions: No data available.

Conditions to avoid: Avoid excessive heat, open flames and all ignition sources.

Incompatible Materials: Strong oxidizers, strong acids and strong bases.

Hazardous Decomposition Products: Oxides of Carbon. May yield acrylic monomers.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

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
Methyl Methacrylate 80-62-6	5,000.00 Rat Category: 5	5,000.00, Rabbit Category: 5	29.80 , Rat 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	1	May cause an allergic skin reaction
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
Methyl Methacrylate – (80-62-6)	79.00, Oncorhynchus Mykiss	69.00 Daphnia Magna	170.00 (96 hr), Selenastrum Capricornutum

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. 3, II	Flammable Liquid, n.o.s.	Flammable Liquid, n.o.s.
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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