

LOCTITE CORPORATION

10/20/98

ROCKY HILL, CONNECTICUT 06067
EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

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Duro(R) Liquid Steel(R) Filler
80222

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: 80222
Part No.: LS-1
Product Type: Sealer/Filler

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Barium sulfate	7727-43-7	45-50
Clay	1332-58-7	20-25
ACETONE	67-64-1	10-15
ISOBUTYL ACETATE	110-19-0	5-10
Synthetic resin	25086-48-0	5-10
BIS (2-ETHYLHEXYL) PHTHALATE*	117-81-7	0.1-1
CARBON BLACK	1333-86-4	0.1-1
PROPYLENE OXIDE*	75-56-9	0.1-1
SILICA, AMORPHOUS, precipitated	112926-00-8	0.1-1

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Barium sulfate	10 mg/m3 dust	10 mg/m3 dust 5 mg/m3 respir.	None
Clay	2 mg/m3 dust	10 mg/m3 dust 5 mg/m3 respir.	None
ACETONE	500 ppm TWA 1188 mg/m3	750 ppm TWA 1800 mg/m3	None
ISOBUTYL ACETATE	150 ppm TWA 713mg/M3	150 ppm TWA 700mg/M3	None
BIS (2-ETHYLHEXYL) PHTHALATE	5 mg/m3 TWA	5 mg/m3 TWA	None
CARBON BLACK	3.5 mg/m3 TWA	3.5 mg/m3 TWA	5ppm
PROPYLENE OXIDE	20 ppm TWA 48 mg/m3	20 ppm TWA 50 mg/m3	5 ppm 6 ppm STEL
SILICA, AMORPHOUS, precipitated	10 mg/m3 TWA	6 mg/m3 TWA	None

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2. COMPOSITION, INFORMATION ON INGREDIENTS

(continued)

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
ACETONE	750 ppm 1782 mg/m3	1000 ppm 2400 mg/m3
BIS (2-ETHYLHEXYL) PHTHALATE	10 mg/m3	10 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity: Irritating to eyes. May cause burning, redness, or swelling. Ingestion may cause gastroenteric irritation, narcosis, liver or kidney injury. Irritating by inhalation. Inhalation of high concentrations may cause headache, confusion, drowsiness, convulsions, or coma. May irritate skin. Prolonged contact may cause redness, burning dryness, or cracking.

Primary Routes of Entry: Skin, ingestion, inhalation.

Signs and Symptoms of Exposure: Irritation of eyes, nose, throat. Headache, confusion, drowsiness, convulsions

Existing Conditions Aggravated by Exposure: Skin conditions.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Barium sulfate	LUN	NO	NO	NO
Clay	AC4 NUI	NO	NO	NO
ACETONE	AC4 BLO CNS IRR	NO	NO	NO
ISOBUTYL ACETATE	CNS IRR	NO	NO	NO
Synthetic resin	No Data	NO	NO	NO
BIS (2-ETHYLHEXYL) PHTHALATE	AC3 DEV KID LIV REP	YES	2B	NO
CARBON BLACK	AC4 RES	NO	2B	NO
PROPYLENE OXIDE	AC3 COR IRR MUT NER	YES	2A	NO
SILICA, AMORPHOUS, precipitated	NUI	NO	NO	NO

Abbreviations

2A Probably carcinogenic to humans	2B Possibly carcinogenic to humans
AC3 ACGIH animal carcinogen.	AC4 ACGIH-Unclassifiable as human carc.
BLO Blood	CNS Central nervous system
COR Corrosive	DEV Developmental
IRR Irritant	KID Kidney
LIV Liver	LUN Lung
MUT Mutagen	NER Nervous System

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3. HAZARDS IDENTIFICATION (continued)

NUI Nuisance dust REP Reproductive
 RES Respiratory

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
 Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
 Skin Contact: Wash with soap and water.
 Eye Contact: Flush with water for at least 15 minutes. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: 0°F Method: Tag Closed Cup
 Recommended
 Extinguishing Agents: Carbon dioxide, foam, dry chemical
 Special Firefighting
 Procedures: Not available
 Hazardous Products formed
 by Fire or Thermal Decomp Oxides of carbon; hydrogen chloride
 Unusual Fire or
 Explosion Hazards: Vapors may ignite explosively.
 Explosive Limits:
 (% by volume in air)Lower 2.4%
 (% by volume in air)Upper 12.8%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
 of spill or leak: Remove sources of ignition. Maintain adequate ventilation. Take up with an inert absorbent. Store in a closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Keep away from fire, heat, sparks.
 (Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
 Handling: Keep away from eyes. Avoid prolonged breathing of vapor and contact with skin. Close container after use.

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
 Skin: Rubber or plastic gloves.
 Ventilation: Sufficient to maintain vapor concentration below TLV.
 Respiratory: Not available
 See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black liquid
 Odor: Penetrating
 Boiling Point: 130°F to 245°F

pH: Does not apply
 Solubility in Water: Partial
 Specific Gravity: 1.85
 Volatile Organic Compound
 (EPA Method 24): Not available
 Vapor Pressure: 181 mm at 68°F
 Vapor Density: More than 1
 Evaporation Rate
 (Ether = 1): Not available

10. STABILITY AND REACTIVITY

Stability: Stable
 Hazardous Polymerization: Will not occur
 Incompatibility: Oxidizing agents, strong alkalies, strong mineral acids, reducing agents.
 Conditions to Avoid: Not available
 Hazardous Decomposition Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
 EPA Hazardous Waste Number: D001/D005 - Hazardous waste per 40CFR 261.21 and may be a TCLP waste per 40CFR.24/Barium

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14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Consumer Commodity (Not more than one liter); Adhesives (More than one liter)
 Hazard Class or Division: ORM-D (Not more than one liter); Class 3, Packing Group II (More than one liter)
 Identification Number: None (Not more than one liter); UN 1133 (More than one liter)
 Marine Pollutant: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 500 ml); Adhesives (More than 500 ml)
 Class or Division: Class 9 (Not more than 500 ml); Class 3, Packing Group II (More than 500 ml)
 UN or ID Number: ID 8000 (Not more than 500 ml); UN 1133 (More than 500 ml)

