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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE LB 8023 TB70ZENFRES	IDH number:	1999556
Product type/use:	Lubricant	Item number:	1999556
Restriction of Use:	None identified	Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: +1 (860) 571-5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		
	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CAUSES SKIN IRRITATION.
MAY CAUSE AN ALLERGIC SKIN REACTION.
CAUSES SERIOUS EYE DAMAGE.
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)



Precautionary Statements

Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.
Response:	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing.
Storage:	Store locked up.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

2 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Residual oils (petroleum), solvent-refined, <3% DMSO	64742-01-4	10 - 20
Calcium oxide	1305-78-8	10 - 20
Graphite	7782-42-5	10 - 20
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	10 - 20
Petroleum distillates, hydrotreated, light naphthenic	64742-53-6	5 - 10
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 - 10
Calcium distearate	1592-23-0	5 - 10
Calcium dodecylbenzene sulfonate	26264-06-2	1 - 5
Calcium dihydroxide	1305-62-0	1 - 5
Sulfonic acids, petroleum, calcium salts	61789-86-4	1 - 5
Boron oxide (B ₂ O ₃)	1303-86-2	0.1 - 1

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.
Skin contact:	Wash with soap and water. Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	Keep individual calm. Do not induce vomiting. Get medical attention.
Symptoms:	See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Carbon dioxide, foam, powder
Special firefighting procedures:	Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.
Unusual fire or explosion hazards:	In case of fire, keep containers cool with water spray.
Hazardous combustion products:	Oxides of nitrogen. Oxides of carbon. Oxides of sulfur. Calcium oxide. Toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways.
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Clean-up methods:

Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed.

Storage:

Keep container closed. Keep in a cool, well ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Residual oils (petroleum), solvent-refined, <3% DMSO	Included in the regulation but with no data values. See regulation for further details 5 mg/m ³ TWA Inhalable fraction. Exposure by all routes should be carefully controlled to levels as low as possible.	None	None	None
Calcium oxide	2 mg/m ³ TWA	5 mg/m ³ PEL	None	None
Graphite	2 mg/m ³ TWA Respirable fraction.	5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ PEL Total dust. 15 MPPCF TWA	None	None
Distillates (petroleum), solvent-refined heavy paraffinic	5 mg/m ³ TWA Inhalable fraction. 5 mg/m ³ TWA mist 10 mg/m ³ STEL mist	500 ppm (2,000 mg/m ³) PEL 5 mg/m ³ PEL Mist. 5 mg/m ³ TWA mist	None	None
Petroleum distillates, hydrotreated, light naphthenic	5 mg/m ³ TWA Inhalable fraction.	500 ppm (2,000 mg/m ³) PEL 5 mg/m ³ PEL Mist.	None	None
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m ³ TWA Inhalable fraction.	500 ppm (2,000 mg/m ³) PEL 5 mg/m ³ PEL Mist.	None	None
Calcium distearate	3 mg/m ³ TWA Respirable fraction. 3 mg/m ³ TWA Respirable fraction. 10 mg/m ³ TWA Inhalable fraction.	None	None	None
Calcium dodecylbenzene sulfonate	None	None	None	None
Calcium dihydroxide	5 mg/m ³ TWA	5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ PEL Total dust.	None	None
Sulfonic acids, petroleum, calcium salts	None	None	None	None
Boron oxide (B ₂ O ₃)	10 mg/m ³ TWA	15 mg/m ³ PEL Total dust.	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:	Observe OSHA regulations for respirator use (29 CFR 1910.134). Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Eye/face protection:	Safety goggles or safety glasses with side shields. Safety showers and eye wash stations should be available.
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Black
Odor:	Mild
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	Not available.
Melting point/ range:	Not available.
Specific gravity:	1.2648
Vapor density:	Not available.
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available.
VOC content:	< 3 %; 38.4 g/l EPA Method 24
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Calcium oxide. Toxic fumes.
Incompatible materials:	Strong acids and strong bases. Strong oxidizing agents. Strong reducing agents. Water. Alkalis.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Avoid dust formation.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation.
Skin contact: Causes skin irritation. May cause an allergic skin reaction.
Eye contact: Causes serious eye damage.
Ingestion: Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Residual oils (petroleum), solvent-refined, <3% DMSO	None	Irritant
Calcium oxide	None	Irritant, Corrosive, Eyes
Graphite	None	Lung
Distillates (petroleum), solvent-refined heavy paraffinic	None	Irritant
Petroleum distillates, hydrotreated, light naphthenic	None	Irritant
Distillates (petroleum), hydrotreated heavy naphthenic	None	Irritant
Calcium distearate	None	No Target Organs
Calcium dodecylbenzene sulfonate	None	Eyes, Irritant
Calcium dihydroxide	Oral LD50 (Rat) = 7,340 mg/kg	Irritant, Corrosive
Sulfonic acids, petroleum, calcium salts	None	No Data
Boron oxide (B2O3)	Oral LD50 (Mouse) = 3,163 mg/kg	Blood, Central nervous system, Gastrointestinal, Irritant, Kidney, Liver, Lung, Metabolic, Nuisance dust, Skin, Vascular

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Residual oils (petroleum), solvent-refined, <3% DMSO	Known To Be Human Carcinogen.	Group 1	No
Calcium oxide	No	No	No
Graphite	No	No	No
Distillates (petroleum), solvent-refined heavy paraffinic	No	No	No
Petroleum distillates, hydrotreated, light naphthenic	No	No	No
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No
Calcium distearate	No	No	No
Calcium dodecylbenzene sulfonate	No	No	No
Calcium dihydroxide	No	No	No
Sulfonic acids, petroleum, calcium salts	No	No	No
Boron oxide (B2O3)	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: None above reporting de minimis
CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA Section 313: None above reporting de minimis.
CERCLA Reportable quantity: Calcium dodecylbenzene sulfonate (CAS# 26264-06-2) 1,000 lbs. (454 kg)
California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Product Safety and Regulatory Affairs

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