



Revision Number: 001.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite LB C5-A 12OZ AE EN	IDH number: 1786073
Product type: Antiseize	Item number: 1786073
	Region: United States
Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	Contact information: Telephone: 860.571.5100 MEDICAL EMERGENCY Phone: Poison Control Center 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

Physical state: Aerosol, Liquid or paste	HEALTH: *1
Color: copper	FLAMMABILITY: 3
Odor: Ketone	PHYSICAL HAZARD: 0
	Personal Protection: Not available.

DANGER: EXTREMELY FLAMMABLE.
CONTENTS UNDER PRESSURE.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.

Relevant routes of exposure: Lungs, Skin, Eyes

Potential Health Effects

Inhalation:	Vapor overexposure may cause drowsiness. Prolonged or excessive inhalation may cause respiratory tract irritation.
Skin contact:	May be harmful if absorbed through skin. May cause skin irritation. May cause sensitization by skin contact.
Eye contact:	Direct spray or vapors will irritate and may harm eyes. Direct contact with liquid may cause corneal damage and visual impairment.
Ingestion:	Harmful if swallowed.

Existing conditions aggravated by exposure: Not available.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
n-Heptane	142-82-5	10 - 30
Acetone	67-64-1	10 - 30
Propane/Isobutane	68476-86-8	10 - 30
Copper	7440-50-8	10 - 30
Graphite	7782-42-5	10 - 30
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 - 10
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	5 - 10
Calcium dihydroxide	1305-62-0	1 - 5
Quartz (SiO ₂)	14808-60-7	1 - 5

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If symptoms develop and persist, get medical attention.
Skin contact:	If symptoms develop and persist, get medical attention. Wash affected area immediately with soap and water.
Eye contact:	Get medical attention. Immediately flush eyes with plenty of water for at least 15 minutes.
Ingestion:	Do not induce vomiting; contains petroleum distillates and/or aromatic solvents. Aspiration may cause pulmonary edema and pneumonitis. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	< -17 °C (< 1.4 °F)
Autoignition temperature:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. 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:	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Do not puncture or incinerate pressurized containers.
Hazardous combustion products:	Oxides of carbon.

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.
Clean-up methods:	Eliminate ignition sources including sources of electrical, static or frictional sparks. Wipe up with adsorbent material (e.g. cloth, fleece). Rinse spill area with water. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Do not breathe gas/fumes/vapor/spray.

Storage: Keep in a cool, well ventilated area. Store away from heat, sparks, flames, or other sources of ignition. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
n-Heptane	500 ppm STEL 400 ppm TWA	500 ppm (2,000 mg/m ³) TWA	None	None
Acetone	500 ppm TWA 750 ppm STEL	1,000 ppm (2,400 mg/m ³) TWA	None	None
Propane/Isobutane	None	None	None	None
Copper	1 mg/m ³ TWA (as Cu) Dust and mist. 0.2 mg/m ³ TWA (as Cu) Fume.	0.1 mg/m ³ TWA (as Cu) Fume. 1 mg/m ³ TWA (as Cu) Dust and mist.	None	None
Graphite	2 mg/m ³ TWA Respirable fraction.	15 mg/m ³ TWA Total dust. 5 mg/m ³ TWA Respirable fraction. 15 MPPCF TWA	None	None
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m ³ TWA mist 10 mg/m ³ STEL mist	5 mg/m ³ TWA mist 500 ppm (2,000 mg/m ³) TWA 5 mg/m ³ TWA Mist.	None	None
Distillates (petroleum), hydrotreated light naphthenic	Exposure by all routes should be carefully controlled to levels as low as possible. Included in the regulation but with no data values. See regulation for further details	5 mg/m ³ TWA mist 10 mg/m ³ TWA mist 5 mg/m ³ TWA Mist. 500 ppm (2,000 mg/m ³) TWA	None	None
Calcium dihydroxide	5 mg/m ³ TWA	5 mg/m ³ TWA Respirable fraction. 15 mg/m ³ TWA Total dust.	None	None
Quartz (SiO ₂)	0.025 mg/m ³ TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m ³ TWA Respirable. 0.3 mg/m ³ TWA Total dust.	None	None

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

Respiratory protection: When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that follows 29 CFR 1910.134 must be followed.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Aerosol, Liquid or paste
Color: copper
Odor: Ketone
Odor threshold: Not available.
pH: Not available.
Vapor pressure: Not available.
Boiling point/range: Not available.
Melting point/ range: Not available.
Vapor density: Not available.
Flash point: < -17 °C (< 1.4 °F)
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not available.
Evaporation rate: Not available.
Solubility in water: Not available.
Partition coefficient (n-octanol/water): Not available.
VOC content: 45 % (calculated)

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous reactions: Not available.
Hazardous decomposition products: Oxides of carbon.
Incompatible materials: Oxidizing agents.
Conditions to avoid: Extremes of temperature and direct sunlight.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
n-Heptane	No	No	No
Acetone	No	No	No
Propane/Isobutane	No	No	No
Copper	No	No	No
Graphite	No	No	No
Distillates (petroleum), hydrotreated heavy naphthenic	Known To Be Human Carcinogen.	Group 1	No
Distillates (petroleum), hydrotreated light naphthenic	Known To Be Human Carcinogen.	Group 1	No
Calcium dihydroxide	No	No	No
Quartz (SiO ₂)	Known To Be Human Carcinogen.	Group 1	No

Hazardous components	Health Effects/Target Organs
n-Heptane	Central nervous system, Irritant
Acetone	Blood, Central nervous system, Irritant, Reproductive
Propane/Isobutane	No Records
Copper	Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin
Graphite	Lung
Distillates (petroleum), hydrotreated heavy naphthenic	Irritant
Distillates (petroleum), hydrotreated light naphthenic	Irritant
Calcium dihydroxide	Irritant, Corrosive
Quartz (SiO ₂)	Immune system, Lung, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information:

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

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

Proper shipping name: Aerosols (Copper)
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Marine pollutant: Copper
DOT Reportable quantity: Copper, Acetone

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS (Copper, n-Heptane)
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Marine pollutant: Copper, n-Heptane

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 minimus
CERCLA/SARA Section 302 EHS:	None above reporting de minimis
CERCLA/SARA Section 311/312:	Fire, Pressure, Immediate Health, Delayed Health
CERCLA/SARA 313:	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Copper (CAS# 7440-50-8).
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.
WHMIS hazard class:	A, B.5, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

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