

HENKEL LOCTITE CORPORATION

Date of Preparation: 12/03/02

## MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: C5A Copper Base Antiseize  
 Item number: 51001  
 Product Type: Lubricant  
 Company Address: Henkel Loctite Corporation  
 1001 Trout Brook Crossing  
 Rocky Hill, Connecticut. 06067

Medical Emergency Number: (860) 571-5100  
 Fax: (860) 571-5465

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	%	Exposure Limits
Mineral oil	64742-52-5	40-60	TWA: 5 STEL: 10 mg/m3 ACGIH TWA: 5 mg/m3 OSHA
Tallow, calcium salt	68309-87-5	5-10	Not established.
Graphite	7782-42-5	10-20	TWA: 2 mg/m3 ACGIH respirable TWA: 5 mg/m3 OSHA respirable TWA: 15 mg/m3 OSHA total
Silica, quartz	14808-60-7	1-5	TWA: 0.05 mg/m3 ACGIH respirable TWA: 10 mg/m3 OSHA respirable
Copper	7440-50-8	20-30	TWA: 1 mg/m3 ACGIH TWA: 1 mg/m3 OSHA TWA: 0.1 mg/m3 OSHA

## 3. HAZARDS IDENTIFICATION

## \*\*\*\*EMERGENCY OVERVIEW\*\*\*\*

PHYSICAL STATE: Paste. COLOR: Copper. ODOR: Slight Petroleum.

CAUTION! MAY CAUSE EYE IRRITATION

Please read MSDS for details.

## Potential Health Effects

## Eye:

Mat cause eye irritation

## Skin:

Not expected to be harmful or irritating. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

## Ingestion:

Moderately toxic by ingestion May irritate mouth, throat, and stomach if swallowed. Nausea.

## Inhalation:

May irritate mouth, nose, and throat if inhaled.

## Conditions Aggravated by Exposure:

Chronic pulmonary conditions Dermatitis.

## Chronic:

Detailed information provided in section 11.

## 4. FIRST AID MEASURES

## Eye:

Immediately flush eyes with plenty of water for at least 15 minutes.  
Get medical attention.

## Skin:

Not available.

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## Ingestion:

Keep individual calm. DO NOT induce vomiting. Get medical attention.

## Inhalation:

Remove to fresh air. If symptoms develop and persist, get medical attention.

## Note to Physician:

None.

## 5. FIRE FIGHTING MEASURES

## Flash Point:

CLOSED CUP : 300.F (149.C). Pensky-Martens.

## Extinguishing Media:

In case of fire, use water spray (fog), foam, dry chemicals, or CO2.

## Flammable Limits:

Not available.

## Special Fire Fighting Procedures:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## Hazardous Combustion Products:

Oxides of carbon.

## Unusual Fire or Explosion Hazards:

None.

## 6. ACCIDENTAL RELEASE MEASURES

## In Case of Spill or Leak:

Soak up with inert absorbent. Store in closed container until disposal.

## 7. HANDLING AND STORAGE

## Handling:

Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing.

## Storage:

Keep container closed.

For information on product shelf life, contact Loctite Customer Service at 1(800)243-4874

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Engineering Controls:

Use local exhaust ventilation if the potential for airborne exposure exists.

## Eye/Face Protection:

Chemical splash goggles or safety glasses with side shields.

## Skin Protection:

Chemical resistant, impermeable gloves are recommended.

## Respiratory Protection:

Not normally needed. Use a NIOSH approved respirator if the potential for airborne exposure exists.

See Section 2 COMPOSITION/INFORMATION ON INGREDIENTS for exposure limits

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Copper.  
Material State: Paste.  
Odor: Slight Petroleum.

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Boiling point: 550 to 4215.F (288 to 2324.C)  
pH: Not applicable.  
Solubility in Water: Insoluble  
Specific gravity: 1.3017  
VOC: Essentially Zero  
Vapor Pressure: Not available.  
Vapor density: >1 (Air = 1)  
Evaporation Rate: <1 compared to Butyl acetate.

## 10. STABILITY AND REACTIVITY

## Stability:

Stable.

## Conditions to Avoid:

Prolonged exposure to heat.

## Incompatibility:

Oxidizing agents. Chloride. Magnesium. Manganese. Mineral acids. Nitrates. Nitrites. Selenium. Strong bases. Strong Lewis acids. Strong oxidants. Sulfate.

## Hazardous Polymerization:

Will not occur.

## Hazardous Decomposition Products:

Hydrocarbons.

## 11. TOXICOLOGY INFORMATION

## Product Toxicology Data:

Not available.

Ingredient	NTP	Carcinogen	
		IARC	OSHA
Mineral oil	No	No	No
Tallow, calcium salt	No	No	No
Graphite	No	No	No
Silica, quartz	1	1	+
Copper	No	No	No

## Key to abbreviations:

NTP 1 - Known carcinogen. IARC 1 - Carcinogenic to human. OSHA + - Proven.

## Ingredient

Mineral oil

Health Effects/Target organs

Irritant.

Tallow, calcium salt

Not available.

Graphite

Lung.

Silica, quartz

Lung. Immune system. Some evidence of carcinogenicity.

Copper

Allergen. Blood. Central nervous system. Developmental. Gastrointestinal. Immune system. Irritant. Kidney. Liver. Mutagen. Sensory. Skin.

## 12. ECOLOGICAL INFORMATION

## Ecological Information:

None known

## 13. DISPOSAL CONSIDERATIONS

## Recommended Method of Disposal:

Dispose according to EPA and local governmental regulations.

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## EPA Hazardous Waste Number:

Not applicable.

## 14. TRANSPORTATION INFORMATION

Domestic Transportation (D.O.T. 49 CFR)-GROUND

## Shipping Description:

Not regulated.

## Exceptions:

Not applicable.

International Air Transportation (ICAO/IATA)-

## Shipping description:

Not regulated.

## Exceptions:

Not applicable.

Marine pollutant:

Copper(P)

15. REGULATORY INFORMATION

SARA Title III Section 313 Chemicals:

Copper

SARA Title III Section 311/312:

Delayed health hazard

Toxic Substances Control Act:

All components are listed on or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA Section 12(b) annual:

None.

TSCA Section 12(b) one time:

None.

Canadian Inventory Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

California Proposition 65:

No California Proposition 65 chemicals are known to be present.

16. OTHER INFORMATION

NFPA Code:

Health: 1

Flammability: 1

Reactivity: 0

Special: None

HMIS Code:

Health: 1 \*

Flammability: 1

Reactivity: 0

Protective Equipment: See Section 8.

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