

## MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: C5-A Copper Based Anti-Seize Aerosol  
 Item number: 51003  
 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
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	1-5	TWA: 5 STEL: 10 mg/m3 ACGIH TWA: 5 mg/m3 OSHA
Petroleum lubricating oil	64742-65-0	1-5	TWA: 5 STEL: 10 mg/m3 ACGIH TWA: 5 mg/m3 OSHA
Residual oils (petroleum), hydrotreated	64742-57-0	1-5	TWA: 5 STEL: 10 mg/m3 ACGIH TWA: 5 mg/m3 OSHA
Residual oils (petroleum), solvent-de-waxed	64742-62-7	1-5	TWA: 5 STEL: 10 mg/m3 ACGIH TWA: 5 mg/m3 OSHA
Mineral oil	64742-52-5	5-10	TWA: 5 STEL: 10 mg/m3 ACGIH TWA: 5 mg/m3 OSHA
Calcium hydroxide	1305-62-0	1-5	TWA: 5 mg/m3 ACGIH TWA: 5 mg/m3 OSHA respirable TWA: 15 mg/m3 OSHA total
Graphite	7782-42-5	1-5	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	5-10	TWA: 1 mg/m3 ACGIH TWA: 1 mg/m3 OSHA TWA: 0.1 mg/m3 OSHA
n-Hexane	110-54-3	10-20	TWA: 50 ppm ACGIH SKIN TWA: 500 ppm OSHA TWA: 1800 mg/m3 OSHA
Isobutane	75-28-5	10-20	Not established.
n-Heptane	142-82-5	10-20	TWA: 1640 STEL: 2050 mg/m3 ACGIH TWA: 400 STEL: 500 ppm ACGIH TWA: 500 ppm OSHA TWA: 2000 mg/m3 OSHA
Propane	74-98-6	5-10	TWA: 2500 ppm ACGIH TWA: 1000 ppm OSHA TWA: 1800 mg/m3 OSHA

## 3. HAZARDS IDENTIFICATION

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

PHYSICAL STATE: Aerosol COLOR: Gray ODOR: Solvent.

DANGER! EXTREMELY FLAMMABLE. CAUSES SEVERE EYE AND SKIN IRRITATION.  
 HARMFUL IF INHALED OR SWALLOWED.

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Product Name: C5-A Copper Based Anti-Seize A  
Item No.: 51003

## Potential Health Effects

Eye:  
Severe eye irritation. Blurred vision. Excess tearing. Pain and discomfort.

Skin:  
Severe skin irritation. Prolonged contact may cause burns

Ingestion:  
Harmful if swallowed. Moderately toxic by ingestion

Inhalation:  
Harmful if inhaled. Liquid aspirated into the lungs may cause serious injury or death. Causes respiratory tract irritation.

Conditions Aggravated by Exposure:  
Skin disorders. Eye disorders.

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:  
Immediately flush skin with plenty of water (using soap, if available) for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.

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 : <0.F (<-18.C). Setaflash.

Extinguishing Media:  
Dry chemical, CO2, alcohol foam or water fog

Flammable Limits:  
LOWER: 1% UPPER: 9.5%

Special Fire Fighting Procedures:

Hazardous Combustion Products:  
Oxides of carbon.

Unusual Fire or Explosion Hazards:  
None.

## 6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak:  
Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away.

## 7. HANDLING AND STORAGE

Handling:  
Do not puncture or incinerate container. Keep away from heat, sparks and flame. Use only with adequate ventilation.

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Product Name: C5-A Copper Based Anti-Seize A  
 Item No.: 51003

## Storage:

Keep in a cool and well-ventilated area.

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. Full face shield should be used if the potential exists for splashing or spraying of product.

## Skin Protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## Respiratory Protection:

Use a NIOSH approved air-purifying respirator with an organic vapor cartridge. Use a full face supplied air respirator if airborne concentrations exceed established exposure limits.

See Section 2 COMPOSITION/INFORMATION ON INGREDIENTS for exposure limits

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Gray  
 Material State: Aerosol  
 Odor: Solvent.  
 Boiling point: Not applicable.  
 pH: Not applicable.  
 Solubility in Water: Insoluble  
 Specific gravity: 1.14  
 VOC: 447g/l  
 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:

None known

## Incompatibility:

## Hazardous Polymerization:

Will not occur.

## Hazardous Decomposition Products:

Oxides of carbon.

## 11. TOXICOLOGY INFORMATION

## Product Toxicology Data:

Not available.

Ingredient	NTP	Carcinogen	
		IARC	OSHA
Distillates (petroleum), hydrotreated heavy paraffinic	No	No	No
Petroleum lubricating oil	No	No	No
Residual oils (petroleum), hydrotreated	No	No	No
Residual oils (petroleum), solvent-de-waxed	No	No	No

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Mineral oil	No	No	No
Calcium hydroxide	No	No	No
Graphite	No	No	No
Silica, quartz	1	1	+
Copper	No	No	No
n-Hexane	No	No	No
Isobutane	No	No	No
n-Heptane	No	No	No
Propane	No	No	No

## Key to abbreviations:

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

Ingredient	Health Effects/Target organs
Distillates (petroleum), hydrotreated heavy paraffinic	Irritant.
Petroleum lubricating oil	Irritant.
Residual oils (petroleum), hydrotreated	Irritant.
Residual oils (petroleum), solvent-de-waxed	Irritant.
Mineral oil	Irritant.
Calcium hydroxide	Irritant. Corrosive.
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.
n-Hexane	Developmental. Irritant. Nervous system. Reproductive. Lung.
Isobutane	Cardiac. Central nervous system. Lung.
n-Heptane	Central nervous system. Irritant.
Propane	Cardiac. Central nervous system. Irritant.

## 12. ECOLOGICAL INFORMATION

## Ecological Information:

None known

## 13. DISPOSAL CONSIDERATIONS

## Recommended Method of Disposal:

Dispose according to EPA and local governmental regulations.

## EPA Hazardous Waste Number:

D001: Ignitable Waste

## 14. TRANSPORTATION INFORMATION

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

## Shipping Description:

Shipping name: Consumer Commodity

Class/Division: (ORM-D)

IDENTIFICATION Number: UN1950

Packing group: Not applicable.

## Exceptions:

None.

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Product Name: C5-A Copper Based Anti-Seize A  
Item No.: 51003

## International Air Transportation (ICAO/IATA)-

## Shipping description:

Shipping name: Aerosols, Flammable  
Class/Division: 2.1  
Identification Number: Un1950  
Packing group: Not applicable.

## Exceptions:

None.

## Marine pollutant:

None known

## 15. REGULATORY INFORMATION

## SARA Title III Section 313 Chemicals:

Copper, n-Hexane

## SARA Title III Section 311/312:

None.

## 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: 2  
Flammability: 4  
Reactivity: 0  
Special: None

## HMIS Code:

Health: 2           \*  
Flammability: 4  
Reactivity: 0

Protective Equipment: See Section 8.