



Fax

Immediate Technical Information Network

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F A C S I M I L E T R A N S M I S S I O N

FROM: Brian Cloutier/Customer S
TO: Jason

DATE: 06/17/04
TIME: 10:00:31

***4 North American Technical Centers
Fully staffed to support Customer Needs...***

Loctite Corporation

* Rocky Hill, CT
800-562-8483

* Auburn Hills, MI
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For Technical Information in the United States call 800-LOCTITE
Loctite's Internet address - <http://www.loctite.com>

Not For Specification!

Please contact the Loctite Corporation Quality Department for assistance and recommendations on specifications for this product.

Rocky Hill, CT Fax: 860-571-5473 Dublin, Ireland Fax: 353-1-519494

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HENKEL LOCTITE CORPORATION

Date of Preparation: 2/03/04

MATERIAL SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: CSA Copper Based Antiseize
 Item number: 37592
 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/m ³ ACGIH TWA: 5 mg/m ³ OSHA
Tallow, calcium salt	68309-87-5	5-10	Not established.
Graphite	7782-42-5	10-20	TWA: 2 mg/m ³ ACGIH respirable TWA: 5 mg/m ³ OSHA respirable TWA: 15 mg/m ³ OSHA total
Silica, quartz	14808-60-7	1-5	TWA: 0.05 mg/m ³ ACGIH respirable TWA: 10 mg/m ³ OSHA respirable
Copper	7440-50-8	20-30	TWA: 1 mg/m ³ ACGIH TWA: 1 mg/m ³ OSHA TWA: 0.1 mg/m ³ 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: May 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.
 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.

HENKEL LOCTITE CORPORATION

Date of Preparation: 2/03/04

MATERIAL SAFETY DATA SHEET

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Product Name: CSA Copper Based Antiseize
Item No.: 375927. 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 PROPERTIESColor: Copper.
Material State: Paste.
Odor: Slight Petroleum.
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	Carcinogen		
	NTP	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	Health Effects/Target organs
Mineral oil	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

HENKEL LOCTITE CORPORATION

Date of Preparation: 2/03/04

MATERIAL SAFETY DATA SHEET

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Product Name: C5A Copper Based Antiseize
Item No.: 3759213. DISPOSAL CONSIDERATIONSRecommended Method of Disposal:
Dispose according to EPA and local governmental regulations.
EPA Hazardous Waste Number:
Not applicable.14. TRANSPORTATION INFORMATIONDomestic Transportation (D.O.T. 49 CFR)-GROUNDShipping Description:
Not regulated.Exceptions:
Not applicable.International Air Transportation (ICAO/IATA)-Shipping description:
Not regulated.Exceptions:
Not applicable.Marine pollutant:
Copper (P)15. REGULATORY INFORMATIONSARA Title III Section 313 Chemicals:
CopperSARA Title III Section 311/312:
Delayed health hazardToxic 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 INFORMATIONNFPA Code:Health: 1
Flammability: 1
Reactivity: 0
Special: NoneHMIS Code:Health: 1 *
Flammability: 1
Reactivity: 0

Protective Equipment: See Section 8.