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## SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

37229

**Product Name:** C5-A Copper Anti-Seize Stick  
**Chemical Family:** Lubricant  
**Manufacturer MSDS.:** 37229  
**Manufacturer Name:** Henkel Corporation  
**Address:** 1001 Trout Brook Crossing  
                  Rocky Hill Connecticut  
                  06067 United States  
  
**Email:** www.loctite.com  
**Business Phone:** 860.571.5100  
**Emergency Phone:** 860.571.5100  
**Creation Date:** 04/11/2006  
**Revision Date:** 04/11/2006  
**Trade Names:** C5-A(R) Copper Anti-Seize Stick  
**Product Codes:** 37229

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## SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

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<i><b>Ingredient Name</b></i>	<i><b>CAS#</b></i>	<i><b>Ingredient Percent</b></i>
Petroleum Distillates	Proprietary	30-60 by Weight
<b>EC Index Number:</b> 1		
Copper	7440-50-8	10-30 by Weight
<b>EC Index Number:</b> 1		
Graphite	7782-42-5	10-30 by Weight
<b>EC Index Number:</b> 1		
Silica, quartz	14808-60-7	1-5 by Weight
<b>EC Index Number:</b> 1		

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**SECTION 3 : HAZARDS IDENTIFICATION**

37229

Emergency Overview:	CAUTION: MAY CAUSE EYE AND SKIN IRRITATION.
Physical State:	Solid
Color:	Copper
Odor:	Mild petroleum
Comments:	See Section 11 for additional toxicological information.

**Applies to All Ingredients :**

Route of Exposure:	Skin, Eyes
Potential Health Effects:	
Eye Contact:	Contact with eyes will cause irritation.
Skin Contact:	Prolonged or repeated contact may cause irritation.
Inhalation:	This product has low volatility and is not expected to cause respiratory tract irritation during normal conditions of use. May cause respiratory tract irritation. Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste, discoloration of skin or hair.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.
Aggravation of Pre-Existing Conditions:	Eye, skin, and respiratory disorders.

[To Top of page](#)**SECTION 4 : FIRST AID MEASURES**

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Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact:	Wash with soap and water. Get medical attention if symptoms develop and persist.
Inhalation:	Remove to fresh air. If discomfort persists seek medical attention.
Ingestion:	Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. Obtain medical attention.

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37229

Flash Point:	Not applicable Product is a solid. Burn Rate: Approx 14mm/2 minutes
Upper Flammable or Explosive Limit:	Not determined
Lower Flammable or Explosive Limit:	Not determined
Auto Ignition Temperature:	Not determined
Extinguishing Media:	Carbon dioxide (CO2). Dry chemical. Foam.
Hazardous Combustion Byproducts:	Oxides of carbon.
Fire Fighting Instructions:	None
Unusual Fire Hazards:	None

[To Top of page](#)**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

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Spill Cleanup Measures:	Scrape up as much material as possible. Clean residue with soap and water. Dispose of in accordance with local and national regulations.
Environmental Precautions:	No special environmental precautions required.

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Handling:	Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Keep in a cool, well ventilated area.
Comments:	For information on product shelf life contact Henkel Customer Service at (800) 243-4874.
Incompatible products	Oxidizing agents.

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## SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

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Engineering Controls:	Ensure adequate ventilation. Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.
Skin Protection Description:	Cover as much of the exposed skin area as possible with appropriate clothing.
Eye/Face Protection:	Safety glasses with side-shields. Goggles.
Respiratory Protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respiratory use (29 CFR 1910.134).
Comments:	See Section 8 for Exposure Limits.
<b>Ingredient Guidelines</b>	
<b>Ingredient:</b> <u>Copper</u>	
Guideline Information:	ACGIH TLV: 0.2 mg/m <sup>3</sup> TWA fume 1 mg/m <sup>3</sup> TWA dust and mist, as Cu; OSHA PEL: 0.1 mg/m <sup>3</sup> TWA fume 1 mg/m <sup>3</sup> TWA dusts and mists; OTHER: None;
<b>Ingredient:</b> <u>Graphite</u>	
Guideline Information:	ACGIH TLV: 2 mg/m <sup>3</sup> TWA respirable fraction, all forms except graphite fibers; OSHA PEL: 15 mg/m <sup>3</sup> (total), 5 mg/m <sup>3</sup> (respirable); OTHER: None;
<b>Ingredient:</b> <u>Petroleum</u>	
<u>Distillates</u>	
Guideline Information:	ACGIH TLV: 5 mg/m <sup>3</sup> TWA (mist) 10mg/m <sup>3</sup> STEL (mist); OSHA PEL: 5 mg/m <sup>3</sup> TWA (mist); OTHER: None;
<b>Ingredient:</b> <u>Silica</u> <u>quartz</u>	
Guideline Information:	ACGIH TLV: 0.05 mg/m <sup>3</sup> TWA respirable fraction; OSHA PEL: 0.1mg/m <sup>3</sup> TWA (respirable); OTHER: None;

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## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

37229

Color:	Copper
Odor:	Mild petroleum
Physical State:	Solid
pH:	Not applicable
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Boiling Point:	Not available
Melting Point:	Not available
n-Octanol/water partition coefficient:	Not determined
Solubility in Water:	Insoluble
Specific Gravity:	1.18
Evaporation Point:	Not determined
Volatile Organic Compound Content:	13.0%; 153 grams/liter

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## SECTION 10 : STABILITY and REACTIVITY

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Chemical Stability:	Stable at normal conditions
Conditions to Avoid:	None known.
Incompatibilities with Other Materials:	Oxidizing agents.
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Oxides of carbon.

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## SECTION 11 : TOXICOLOGICAL INFORMATION

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**Petroleum Distillates :**

Target Organ Data: Irritant  
 Carcinogenicity: OSHA Designation: No; NTP Designation: No; IARC Designation: No;

**Copper :**

Target Organ Data: Skin, Sensory, Mutagen, Liver, Kidney, Irritant, Immune system, Gastrointestinal, Central nervous system, Blood, Allergen, Developmental  
 Carcinogenicity: OSHA Designation: No; NTP Designation: No; IARC Designation: No;

**Graphite :**

Target Organ Data: Lung  
 Carcinogenicity: OSHA Designation: No; NTP Designation: No; IARC Designation: No;

**Silica, quartz :**

Target Organ Data: Some evidence of carcinogenicity, Lung, Immune system  
 Carcinogenicity: OSHA Designation: Yes; NTP Designation: Known Carcinogen; IARC Designation: Group 1;

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## SECTION 12 : ECOLOGICAL INFORMATION

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Ecological Paragraph: Not available

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## SECTION 13 : DISPOSAL CONSIDERATIONS

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Waste Disposal: Dispose of according to Federal, State and local governmental regulations.  
 EPA Waste Number: Not a RCRA hazardous waste.  
 Comments: Information provided is for unused product only.

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## SECTION 14 : TRANSPORT INFORMATION

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Transportation Information: The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.  
 DOT Shipping Information: DOT reportable quantity (lbs): Copper (CAS# 7440-50-8) is reportable at 5000 pounds (2700kg) ;  
 DOT Shipping Name: Unrestricted  
 DOT Hazard Class: None  
 DOT Identification Number: None  
 DOT Packing Group: None  
 IMO Shipping Name: Environmentally hazardous substances, solid, n.o.s. (Copper)  
 IMO Hazard Class: 9  
 IMO UN Number: UN3077  
 IMO Packing Group: III  
 IATA Shipping Name: Unrestricted  
 IATA Hazard Class: None  
 IATA UN Number: None  
 IATA Packing Group: None  
 Maritime Transportation CGVS/GGVE/IMDG: Marine pollutant: Copper;  
 Maritime Pollutant: Copper

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## SECTION 15 : REGULATORY INFORMATION

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**Applies to all ingredients:**

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.
Section 302:	None.
Section 312 Hazard Category:	Immediate Health Hazard
Section 313 Toxic Release Form:	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).
State:	California Proposition 65: No California Proposition 65 listed chemicals are known to be present.
Regulatory Paragraph:	CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
Canada WHMIS:	D.2.A, D.2.B

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## SECTION 16 : ADDITIONAL INFORMATION

37229

**HMIS:**

Health Hazard:	1
Fire Hazard:	1
Reactivity:	0
Personal Protection:	See Section 8

**MSDS Author:** C.J. Michaels, Senior Product Safety &Regulatory Affairs Specialist

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