





## 1. PRODUCT AND COMPANY IDENTIFICATION

# Product name: Product type:

Company address:

Henkel Corporation

Rocky Hill, Connecticut 06067

One Henkel Way

C5-A® Copper Based Anti-Seize Lubricant Lubricant IDH number:

234209

Item number:51011Region:United StatesContact information:Telephone:860.571.5100MEDICAL EMERGENCY Phone:Poison Control Center1-877-671-4608 (toll free)or 1-303-592-1711TRANSPORT EMERGENCY Phone:CHEMTREC1-800-424-9300 (toll free)or 1-703-527-3887Internet:www.henkelna.com

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW HMIS:				
Physical Color: Odor:		paste copper Mild	HING. HEALTH: FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	*1 1 0 See MSDS Section 8
	CAUTION:	Μ	IAY CAUSE EYE AND SKIN IRRITATION.	
Relevant routes of exposure:		<b>:</b> :	Skin, Eyes	
Potential	Health Effects			
	Inhalation:		This product has low volatility and is not expected to cause normal conditions of use. Inhalation of copper fumes may re include metallic taste, discoloration of skin or hair.	
	Skin contact: Eye contact: Ingestion:		Prolonged or repeated contact may cause irritation. Contact with eyes will cause irritation. Ingestion may cause gastrointestinal irritation, nausea, vom of ingestion is aspiration into the lungs and subsequent pre	
Existing conditions aggravated by exposure:		ited by	Eye, skin, and respiratory disorders.	
			This material is considered hazardous by the OSHA Hazard 1910.1200).	d Communication Standard (29 CFR

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%	
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	30 - 60	
Calcium dihydroxide	1305-62-0	10 - 30	
Mineral oil light naphthenic hydrotreat. <3% DMSO	64742-53-6	10 - 30	
Copper	7440-50-8	10 - 30	
Graphite	7782-42-5	5 - 10	
Quartz (SiO2)	14808-60-7	0.1 - 1	

4	. FIRST AID MEASURES
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Wash with soap and water. If symptoms develop and persist, get medical attention.
Eye contact:	Get medical attention. Immediately flush eyes with plenty of water for at leas 15 minutes.
Ingestion:	Aspiration may cause pulmonary edema and pneumonitis. Do not induce vomiting. Get medical attention.
5. F	FIRE FIGHTING MEASURES
Flash point:	> 93 °C (> 199.4 °F)
Autoignition temperature:	Not determined
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Extinguishing media:	Carbon dioxide. Dry chemical. foam Water spray or fog.
Special firefighting procedures:	None
Unusual fire or explosion hazards:	None
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:

Clean-up methods:

#### 7. HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Keep container closed. Avoid contact with eyes, skin and clothing.

Follow all local, state, federal and provincial regulations for disposal. Scrape up as much material as possible. Clean residue with soap and water.

Do not allow material to contaminate ground water system.

Storage:

Keep in a cool, well ventilated area.

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
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA Inhalable fraction. 5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist 500 ppm (2,000 mg/m3) TWA 5 mg/m3 TWA Mist.	None	None
Calcium dihydroxide	5 mg/m3 TWA	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Mineral oil light naphthenic hydrotreat. <3% DMSO	5 mg/m3 TWA Inhalable fraction.	500 ppm (2,000 mg/m3) TWA 5 mg/m3 TWA Mist.	None	None
Copper	1 mg/m3 TWA (as Cu) Dust and mist. 0.2 mg/m3 TWA (as Cu) Fume.	0.1 mg/m3 TWA (as Cu) Fume. 1 mg/m3 TWA (as Cu) Dust and mist.	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 MPPCF TWA	None	None
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None

Engineering controls:

Respiratory protection:

Use only with adequate ventilation. Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respirator use (29 CFR 1910.134).

Eye/face protection:

Skin protection:

Goggles. Safety glasses with side-shields.

Chemical resistant, impermeable gloves. Neoprene, Butyl-rubber, or nitrilerubber gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: . Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): **VOC content:** 

paste , copper Mild Not available. Not applicable < 5.0 mm hg > 260 °C (> 500°F) Not available. 1.30 Heavier than air. > 93 °C (> 199.4 °F) Not determined Not determined Not determined Slower than ether. Insoluble Not determined Essentially Zero

#### **10. STABILITY AND REACTIVITY**

Stability:

Stable at normal conditions.

Hydrocarbons. Oxides of carbon.

Hazardous reactions:

Will not occur.

Hazardous decomposition products:

Incompatible materials:

Conditions to avoid:

Strong acids and strong bases. Oxidizing agents.

Prolonged exposure to heat.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No	
Calcium dihydroxide	No	No	No	
Mineral oil light naphthenic hydrotreat. <3% DMSO	No	No	No	
Copper	No	No	No	
Graphite	No	No	No	
Quartz (SiO2)	Known To Be Human Carcinogen.	Group 1	No	

Hazardous components	Health Effects/Target Organs	
Distillates (petroleum), hydrotreated heavy naphthenic	Irritant	
Calcium dihydroxide	Irritant, Corrosive	
Mineral oil light naphthenic hydrotreat. <3% DMSO	Irritant	
Copper	Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin	
Graphite	Lung	
Quartz (SiO2)	Immune system, Lung, Some evidence of carcinogenicity	

## 12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

## **13. DISPOSAL CONSIDERATIONS**

#### Information provided is for unused product only.

Recommended method of disposal:

Hazardous waste number:

Follow all local, state, federal and provincial regulations for disposal.

Not a RCRA hazardous waste.

#### **14. TRANSPORT INFORMATION**

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

#### U.S. Department of Transportation Ground (49 CFR) Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Copper)

Proper shipping name: Hazard class or division: Identification number: Packing group: Marine pollutant: DOT Reportable quantity:

9 UN 3082 III Copper Copper

International Air Transportation (ICAO/IATA)					
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.				
Hazard class or division:	9				
Identification number:	UN 3082				
Packing group:	III				
Water Transportation (IMO/IMDG)					
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper)				
Hazard class or division:	9				
Identification number:	UN 3082				
Packing group:					
Marine pollutant:	Copper				
	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:	Immediate 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:	No California Proposition 65 listed chemicals are known to be present.				
Canada Regulatory Information					
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic				
	Substances List.				
WHMIS hazard class:	D.2.A, D.2.B				
16. OTHER INFORMATION					

This material safety data sheet contains changes from the previous version in sections: New information added in Section(s): 8

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