# **Material Safety Data Sheet**



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Revision Number: 002.5

1. PRODUCT AND COMPANY IDENTIFICATION			
Product name: C5-A® Co Lubrican Product type: Lubricant		IDH number: Item number:	566703 38584
Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067		Region: Contact information: Telephone: 860.571.5 Emergency telephone Internet: www.henkeln	United States 100 : 860.571.5100
	2. HAZARI	<b>DS IDENTIFICATIO</b>	N
	EMERGENO	Y OVERVIEW HMIS:	
Physical state: past   Color: copp   Odor: mild	ber	HEALTH: FLAMMABILIT PHYSICAL HA Personal Prote	<b>ZARD:</b> 0
CAUTION:	MAY CAUSE EYE A	ND SKIN IRRITATION	۱
Relevant routes of exposure:	Skin, Eyes		
Potential Health Effects			
Inhalation: Skin contact: Eye contact: Ingestion:	normal conditions of include metallic taste Prolonged or repeate Contact with eyes wi Ingestion may cause	This product has low volatility and is not expected to cause respiratory tract irritation during normal conditions of use. Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste, discoloration of skin or hair. Prolonged or repeated contact may cause irritation. Contact with eyes will cause irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.	
Existing conditions aggravated by Eye, skin, and respiratory disorders. exposure:			
	This material is cons 1910.1200).	idered hazardous by the O	SHA Hazard 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 least 15 minutes.
Ingestion:	Aspiration may cause pulmonary edema and pneumonitis. Do not induce vomiting. Get medical attention.

#### 5. 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.
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## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected

personnel.
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7. HANDLING AND STORAGE	
	up as much material as possible. Clean residue with soap and water.
Clean-up methods:	Follow all local, state, federal and provincial regulations for disposal. Scrape
Environmental precautions:	Do not allow material to contaminate ground water system.

Handling:

Storage:

Keep in a cool, well ventilated area.

Wash thoroughly after handling. Keep container closed. Avoid contact with

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

eyes, skin and clothing.

### 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 mist 10 mg/m3 STEL mist 5 mg/m3 TWA Inhalable fraction.	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	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	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 Fume.	1 mg/m3 TWA (as Cu) Dust and mist. 0.1 mg/m3 TWA (as Cu) Fume.	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. 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 respiratory use (29 CFR 1910.134).

Eye/face protection:

Skin protection:

Goggles. Safety glasses with side-shields.

Cover as much of the exposed skin area as possible with appropriate clothing.

## 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.

TRANSPORT INFORMATI

14. TRANSPORT INFORMATION

Not a RCRA hazardous waste.

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:

UN 3082 III Copper Copper

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International Air Transportation (ICA	O/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 Degulatory 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 minimus	
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 Material Safety Data Sheet format.

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