

Revision Number: 004.0 Issue date: 04/29/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: C5-A® Copper Based Anti-Seize IDH number:

Lubricant

 Product type:
 Lubricant
 Item number:
 51002

 Restriction of Use:
 None identified
 Region:
 United States

Company address: Henkel Corporation One Henkel Way

One Henkel Way Rocky Hill, Connecticut 06067 Contact information: Telephone: (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

234194

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE DAMAGE.

SUSPECTED OF CAUSING GENETIC DEFECTS.

MAY CAUSE CANCER.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
GERM CELL MUTAGENICITY	2
CARCINOGENICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1



#### **Precautionary Statements**

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear protective gloves. Use

personal protective equipment as required.

Response: IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. IF exposed or concerned: Get medical attention. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing.

Storage: Store locked up.

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
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	

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Wash with soap and water. If symptoms develop and persist, get medical

attention.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

**Ingestion:** Do not induce vomiting. Get medical attention.

Symptoms: See Section 11.

# 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Carbon dioxide. Dry chemical. foam Water spray or fog.

Special firefighting procedures: None
Unusual fire or explosion hazards: None

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**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: Do not allow material to contaminate ground water system.

Clean-up methods: Scrape up as much material as possible. Clean residue with soap and water.

## 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.

Keep container closed. Wash thoroughly after handling.

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 Component(s)	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 mist 500 ppm (2,000 mg/m3) PEL 5 mg/m3 PEL Mist.	None	None
Calcium dihydroxide	5 mg/m3 TWA	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Mineral oil light naphthenic hydrotreat. <3% DMSO	None	500 ppm (2,000 mg/m3) PEL 5 mg/m3 PEL Mist.	None	None
Copper	1 mg/m3 TWA (as Cu) Dust and mist. 0.2 mg/m3 TWA (as Cu) Fume.	1 mg/m3 PEL (as Cu) Dust and mist. 0.1 mg/m3 PEL (as Cu) Fume.	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL 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: Use local ventilation if general ventilation is insufficient to maintain vapor

concentration below established exposure limits.

**Respiratory protection:** 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: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin

contact. Use of Butyl or Nitrile Rubber gloves is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:PasteColor:CopperOdor:MildOdor threshold:Not available.pH:Not applicable

Vapor pressure: < 5.0 mm hg

Boiling point/range: < 50.0 mm hg
> 260 °C (> 500°F)

Melting point/ range: Not available.

1.30

Specific gravity: Vapor density: Heavier than air. Flash point: > 93 °C (> 199.4 °F) Flammable/Explosive limits - lower: Not determined Flammable/Explosive limits - upper: Not determined Autoignition temperature: Not determined Evaporation rate: Slower than ether. Solubility in water: Insoluble

Partition coefficient (n-octanol/water): Not determined VOC content: < 3 % Essentially Zero

Viscosity: Not available. **Decomposition temperature:** Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

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Hydrocarbons. Oxides of carbon.

Incompatible materials: Strong acids and strong bases. Oxidizing agents.

Reactivity: Not available.

Conditions to avoid: Prolonged exposure to heat.

## **TOXICOLOGICAL INFORMATION**

Relevant routes of exposure: Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation: Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste,

discoloration of skin or hair.

**Skin contact:** Causes skin irritation. May cause allergic skin reaction.

**Eye contact:** Causes serious eye damage.

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Distillates (petroleum), hydrotreated heavy naphthenic	None	Irritant	
Calcium dihydroxide	Oral LD50 (RAT) = 7,340 mg/kg	Irritant, Corrosive	
Mineral oil light naphthenic hydrotreat. <3% DMSO	None	Irritant	
Copper	None	Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin	
Graphite	None	Lung	
Quartz (SiO2)	None	Immune system, Lung, Some evidence of carcinogenicity	

Hazardous Component(s)	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

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

**Hazardous waste number:**Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: RQ, Environmentally hazardous substances, liquid, n.o.s. (Copper)

Hazard class or division:

Identification number:

Packing group:

Marine pollutant:

DOT Hazardous Substance(s):

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:

Identification number:

Packing group:

Marine pollutant:

UN 3082

III

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 minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 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).

CERCLA Reportable quantity: Copper (CAS# 7440-50-8) 5,000 lbs. (2,270 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information** 

IDH number: 234194

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Catherine Bimler, Regulatory Affairs Specialist

**Issue date:** 04/29/2014

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