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Balderson / KCTC

REC'D APR 18 2007

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: COPPER ANTI-SEIZE LUBRICANT 80Z
Item No: 09128
Product Type: Lubricant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Weight Percent	ACGIH TLV:	OSHA PEL:
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC 64742-53-6	25-35	5 mg/m ³ TWA	5 mg/m ³ TWA
LITHIUM GREASE Mixture	15-25	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)
COPPER 7440-50-8	15-25	0.2 mg/m ³ (fume); 1 mg/m ³ (dusts and mists as Cu)	1.0 mg/m ³ (dust and mist); 0.1 mg/m ³ (fumes) TWA
CALCIUM OXIDE 1305-78-8	10-20	2 mg/m ³ TWA	5 mg/m ³ TWA
GRAPHITE 7782-42-5	5-15	2 mg/m ³ respir.dust	15 mppcf TWA

3. HAZARDS IDENTIFICATION

Toxicity:

Harmful if swallowed. At elevated temperatures may cause irritation of the respiratory tract. Repeated and prolonged inhalation of graphite dust may cause pulmonary fibrosis, emphysema and pneumoconiosis. This product contains encapsulated silicon dioxide (quartz silica). No exposure to free respirable silica is anticipated during normal use of this product. Silica may be released by grinding or machining of coated material. Use NIOSH-approved dust/mist respirator when grinding or machining. This product contains encapsulated metal powder which contains copper and zinc. No exposure to free metal is anticipated during normal use. If grinding or machining coated surfaces, use appropriate protective measures. Repeated or prolonged exposure to metal dust may cause metal-fume fever, metallic taste and discoloration of the skin and hair.

Primary Routes of Entry:

Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure:

Slightly irritating to eyes, but does not injure eye tissue. May cause skin irritation. Inhalation of dust at levels above recommended exposure limit may cause metallic or sweet taste, irritation of pharynx and possible ulceration with perforation of the nasal septum. Moderately toxic if swallowed. Irritating to mouth, throat and stomach with nausea..

Ingredient	Weight Percent	NTP	ACGIH Carcinogens	IARC
COPPER 7440-50-8	15-25		A4 Not classifiable as a human carcinogen	

Medical Conditions Recognized as Being Aggravated by Exposure:

Preexisting pulmonary and dermatological disorders.

4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:

Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C):

225 degrees F. Method: Pensky-Martens CC

Recommended Extinguishing Media:

Water fog, carbon dioxide, foam, dry chemical.

5. FIRE FIGHTING MEASURES

Special Fire-Fighting Procedures:

Hazardous Products of Combustion:

Unusual Fire/Explosion Hazards:

Firefighters should wear self-contained breathing apparatus. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of flame.

Irritating vapors, Oxides of sulfur, Oxides of carbon

Finely divided dust in air may present explosion hazard. Prevent dust build up.. Closed containers may rupture or explode when exposed to extreme heat.

Lower Explosive Limit:

Upper Explosive Limit:

Not determined.

Not determined.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:

Reclaim clean material. Contaminated material should be swept or shoveled into appropriate waste container for proper disposal.

7. HANDLING AND STORAGE

Storage:

Store away from heat.

Handling:

Avoid contact with skin and eyes. Avoid contact with vapors from heated material. Keep container closed when not in use. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Do not take internally.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:

Safety glasses

Skin:

Rubber or plastic gloves.

Ventilation:

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

Respiratory Protection:

An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Copper colored

Odor:

Petroleum Odor

Boiling Point:

>550°F

pH:

Does not apply

Solubility in Water:

Insoluble

Specific Gravity:

Not determined

VOC Content(Wt.%):

None

Vapor Pressure:

Not Determined

Vapor Density (Air=1):

Heavier than air

Evaporation Rate:

<1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable at normal conditions

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong mineral acids, strong bases or oxidants, nitrates, nitrites, chlorinated hydrocarbons, chlorides, palladium, selenium, manganese, magnesium, potassium chlorate, sodium carbonate, sulfates, diborane
Heat

Conditions to Avoid:

Hazardous Products of Combustion:

Irritating vapors, Oxides of sulfur, Oxides of carbon

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:

Disposal should be made in accordance with federal, state and local regulations.

US EPA Waste Number:

NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Domestic Ground Transport

DOT Shipping Name:	Unrestricted
Hazard Class:	None
UN/ID Number:	None
Marine Pollutant:	Copper (P)

IATA

Proper Shipping Name:	Not regulated
Class or Division:	None
UN/NA Number:	None

IMDG

Proper Shipping:	Unrestricted
Hazard Class:	None
UN Number:	None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

COPPER COMPOUND

CALIFORNIA PROP 65:

No California Prop 65 chemicals are known to be present.

TSCA Inventory Status:

Listed on Inventory: YES All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0

Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

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Revision 3

Number: