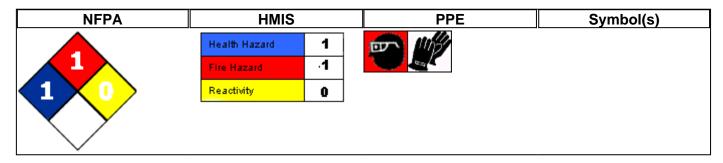


Material Safety Data Sheet



Preparation Date June 2011

Revision Date 23-November-2011

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description: Copr Plus MSDS #: 0070 377G

Recommended Use For industrial use only

ManufacturerTelephone NumberBestolife Corporation(214) 631-60702777 Stemmons Freeway, Suite 1800

Dallas, Texas 75207

USA

Internet: www.bestolife.com

Emergency Telephone Number CHEMTREC: 800-424-9300 or 703-527-3887 (Transportation Emergencies;

24-hours/day)

2. HAZARDS IDENTIFICATION

Emergency Overview

May cause skin irritation

Appearance Copper-blackPhysical State Solid.Odor Petroleum odor.

Potential Health Effects

Principle Routes of Exposure The two major means of exposure are skin absorption and ingestion.

Acute Effects

EyesContact with eyes may cause irritation.SkinSkin contact may cause irritation.InhalationNot an expected route of entry.

Ingestion This product may be absorbed by the digestive system. Ingestion can result in both acute

and chronic overexposure.

Chronic Effects

Prolonged and repeated contact with the product may cause a defatting of the skin, dermatitis, folliculitis and/or oil acne.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Preexisting eye or skin disorders may be aggravated by prolonged contact with this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Lubricating greases	74869-21-9	40-70
Copper	7440-50-8	7-13
Lime	1305-78-8	1-5

Other Non-Hazardous Ingredients

Contains: <3% DMSO-extractable components

4. FIRST AID MEASURES

Eye Contact Flush with copious amounts of water. Get immediate medical attention.

Skin Contact Wash thoroughly with soap and water. If irritation occurs, get medical attention.

Remove from exposure. Get medical attention if experiencing cough, irritation or difficult Inhalation

Ingestion Get immediate medical attention. DO NOT INDUCE VOMITING! Possible aspiration

Notes to Physician The hydrocarbons contained in this product are mild irritants of the eyes and mucous

> membranes, central nervous system depressants, and primary chemical irritants of the skin. Prolonged or repeated skin contact, especially with poor personal hygiene, may cause skin disorders. For combustion product effects see Hazardous Combustion Products in Section

5. Fire-Fighting Measures.

Use personal protective equipment. Avoid contact with skin, eyes and clothing. **Protection of First-aiders**

5. FIRE-FIGHTING MEASURES

Flammable Properties **Suitable Extinguishing Media**

Unsuitable extinguishing media.

Explosion Limits

Impact Sensitivity

Sensitivity to static discharge

Hazardous Combustion Products

No information available

Dry chemical, water fog, foam, or carbon dioxide may be suitable for extinguishing fires involving this product.

No information available

Combustion products are highly dependent on the combustion conditions, CO, CO2, CaO, LiO2, fluorides, oxygenates, and unidentified organic compounds may be formed during combustion, High temperature may produce metal fume, vapor, and/or dust, Combustion products may cause effects of overexposure as noted in Section 2. Hazards Identification, They may also cause headache: dizziness: coma: convulsion: weakness: drowsiness: tachypnea: nausea: paresthesias: dyspnea; asphyxiation; mild to severe eye, skin or respiratory tract irritation; metal fume fever; metallic taste in mouth; cough; pneumonia; pneumonconiosis; ulceration or perforation of the nasal septum; polymer fume fever; cumulative bone damage; excessive salivation; thirst; sweating; stiff spine; calcification of ligaments of ribs and pelvis; lung damage; and/or central nervous system effects, Other unidentified health effects may occur.

Not applicable. Not applicable.

Product fume and/or vapor may be irritating or toxic if inhaled. The product, or its dust, can react vigorously with strong oxidizing agents.

Use full-body protection and full-face, self-contained breathing apparatus operated in a positive-pressure mode. Use water spray (fog) to cool containers and disperse vapors.

Instability 0

Protective Equipment and Precautions for Firefighters

Specific Hazards Arising from the Chemical

Flammability 1 **NFPA** Health 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Environmental Precautions

Avoid contact with the skin and the eyes.

Keep petroleum products out of streams and waterways. Assure conformity with applicable

government regulations.

Methods for cleaning up Other Information Clean area with an appropriate cleanser.

Not applicable

7. HANDLING AND STORAGE

Handling

The two major means of metal absorption are inhalation and ingestion. After use, always wash hands before smoking, eating, or drinking. Smoking, eating, and drinking should be confined to uncontaminated areas Work clothes and equipment should remain in designated areas. Before reuse, launder contaminated clothing separate from personal clothing. Avoid skin contact and use personal protection when handling product, waste product, or contaminated equipment. Wash with soap and water after use. Prolonged and repeated contact can cause defatting action of the skin and may cause disorders such as dermatitis, folliculitis, and oil acne. This product is intended for industrial use only. Isolate from children and their environment. This product may separate. Stir well before use. The flash point of this product depends on the degree of separation.

Storage

Store in a cool, dry area where accidental contact with acids is not possible. Do not store or handle near high temperature or open flame. Keep storage containers closed when not in

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico OEL (TWA)
Copper	TWA: 0.2 mg/m³ TWA: 1 mg/m³	0.1	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 mg/m³ TWA: 1 mg/m³ STEL: 2 mg/m³
Lime	TWA: 2 mg/m ³	5	TWA: 2 mg/m ³	TWA: 2 mg/m ³

NIOSH IDLH: Not applicable.

Engineering Measures No special ventilation requirements under conditions of normal use (air concentrations

below PEL/TLV levels).

Personal Protective Equipment

Eye/Face Protection
Skin Protection

Respiratory Protection

General Hygiene Considerations

Vented goggles or safety glasses with side shields should be worn when using this product.

Clothing appropriate for an industrial environment should be worn.

No respiratory equipment is required for normal use.

When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceCopper-blackOdorPetroleum odorOdor ThresholdNo information availablePhysical StateSolid

Odor Inreshold No Information available Physical State Soil

pH No information available Flash Point 166 °C / 330 °F

Flash Point Method ASTM D 92, C.O.C. Autoignition Temperature No information available

Boiling Point/Range No information available Melting Point No information available

Dropping Point140 °C / 285 °FFlammability Limits in AirNo information availableVapour Density>1Vapour PressureNo information available

Specific Gravity 1.2 Solubility
Partition Coefficient No information available Viscosity

(n-octanol/water)

Evaporation Rate <1 Freezing Point No information available

10. STABILITY AND REACTIVITY

Chemical Stability
Conditions to Avoid
Incompatible Products
Hazardous Decomposition Products
Possibility of Hazardous Reactions

Not Applicable. Not applicable.

Strong oxidizers or acids.

Under normal temperatures this product will not decompose.

Negligible

No information available

Not applicable

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lubricating greases	2280 mg/kg (Rat)		
Lime	500 mg/kg (Rat)		

Irritation

Product may cause irritation to the eyes and/or skin. Ingestion of the product may cause gastrointestinal irritation and upset.

Chronic Toxicity

Carcinogenicity Passes IP 346 Method<3% DMSO-extractable components

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Component	ACGIH	IARC	NTP	OSHA	Mexico	
Copper	TWA: 0.2 mg/m ³					
Lime	TWA: 2 mg/m ³					

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Lubricating greases		LC50> 2000 mg/L Salmo		
		gairdneri 96 h		
Copper	EC50 = 120 μg/L 72 h	LC50 0.0068 - 0.0156 mg/L		EC50 = 0.03 mg/L 48 h
		Pimephales promelas 96 h		
		LC50< 0.3 mg/L Pimephales		
		promelas 96 h		
		LC50= 0.052 mg/L		
		Oncorhynchus mykiss 96 h		
		LC50= 0.112 mg/L Poecilia		
		reticulata 96 h		
		LC50= 0.2 mg/L Pimephales		
		promelas 96 h		
		LC50= 0.3 mg/L Cyprinus		
		carpio 96 h		
		LC50= 0.8 mg/L Cyprinus		
		carpio 96 h		
		LC50= 1.25 mg/L Lepomis		
		macrochirus 96 h		
Lime		LC50= 1070 mg/L Cyprinus		
		carpio 96 h		

Persistence and Degradability Bioaccumulation

Mobility in Environmental Media

No information available. No information available. No information available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Discard in accordance with local, state, and federal regulations. Empty containers are exempt from RCRA Subtitle C if they contain no more than 2.5 cm of their original contents in the bottom of the container or less than 3% of the original net weight (less than 0.3% by weight for containers over 110 gallons), or if the residue is analyzed and demonstrated to be nonhazardous.

Contaminated Packaging

"Empty" containers retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY AND/OR DEATH. "Empty" containers should be completely drained and properly sealed. Recycle or discard plastic liner, pail or drum in accordance with local, state, and federal regulations. "Empty" drums may be sent to a drum reconditioner.

14. TRANSPORT INFORMATION

DOT Not regulated by Ground unless it is being shipped by vessel, then it may be classified on

documentation as UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder), Class 9, PGIII, Marine Pollutant. (Prepared in compliance with IMDG). Not regulated by Ground unless it is being shipped by vessel, then it may be classified on

documentation as UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Copper

Metal Powder), Class 9, PGIII, Marine Pollutant.

IATA UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Copper Metal Powder),

Class 9, PGIII.

IMDG/IMO UN3077, Environmentally Hazardous Substance, Solid, n.o.s. (Lead, Copper Metal

Powder), Class 9, PGIII, Marine Pollutant.

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS/EL INCS	ENCS	CHINA	KECL	PICCS	AICS
Lubricating greases				278-011-7		Х		Х	
Copper	Present	Х		EEC No. 231-159-6		Х		Х	Х
Lime	Present	Х		215-138-9	Х	Х		Х	Х

U.S. Federal Regulations

SARA 313

TDG

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values		
Copper			

SARA 311/312 Hazardous Categorization

Chronic Health HazardYesAcute Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Copper	5000	

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

Preparation Date Revision Date

June 2011 23-November-2011

Revision Number

Revision Summary

Format change; Update in Section 9. Physical and Chemical Properties; NFPA Revision

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Disclaimer

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End of MSDS