



SAFETY DATA SHEET

COPPER-RICH™

High-temperature anti-seize and lubricant

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name

Copper-Rich™

Product Codes

72851, 72841, 72861

Chemical Family

Organic

Use

Lubricant

Manufacturer's Name

The RectorSeal Corporation
2601 Spenwick Drive
Houston, Texas 77055 USA

Date of Validation

January 23, 2015

Date of Preparation

November 7, 2012

HMIS Codes

Health	1
Flammability	1
Reactivity	0
PPI	B

Emergency Telephone No.

Chemtrec 24 Hours
(800)-424-9300 USA
(703)-527-3887 International

Technical Service Telephone No.

(800)-231-3345 or (713)-263-8001

SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Physical Hazards:

None

Health Hazards

Acute Toxicity:

Oral: Not Classified

Dermal: Not Classified

Inhalation: Not Classified

Skin Corrosion/Irritation: Not Classified

Serious Eye Damage/Eye Irritation: Not Classified

Respiratory or Skin Sensitization: Not Classified

Germ Cell Mutagenicity: Not Classified

Carcinogenicity: Not Classified

Reproductive Toxicology: Not Classified

Target Organ Systemic Toxicity - Single Exposure: Not Classified
Target Organ Systemic Toxicity - Repeated Exposure: Not Classified

Aspiration Toxicity: Not Classified

ENVIRONMENTAL HAZARDS

Hazardous to the Aquatic Environment: Not Classified
Acute aquatic toxicity: Not Classified
Chronic aquatic toxicity: Not Classified
Bioaccumulation potential: Not Classified
Rapid degradability: Not Classified

GHS Label elements, including precautionary statements

Pictogram: None

Signal Word: None

Hazard Statements:
None

Precautionary Statements:
P102 - Keep out of reach of children.
P264 - Wash hands thoroughly after handling.

Summary Of Acute Hazards

Repeated contact may cause skin irritation.

Route Of Exposure, Signs And Symptoms

INHALATION
None

EYE CONTACT
Irritation, blurred vision.

SKIN CONTACT
Irritation, dermatitis, defatting.

INGESTION
Gastro-intestinal irritation, nausea, vomiting and diarrhea.

SUMMARY OF CHRONIC HAZARDS
Prolonged skin contact may result in irritation and absorption.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None known.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient:	Petroleum Oil
Percentage By Weight:	50-70
CAS Number:	64741-96-4
EC#:	265-097-6

Ingredient:	Copper Flakes
Percentage By Weight:	30 max
CAS Number:	7440-50-8
EC#:	231-159-6

SECTION 4 – FIRST AID MEASURES

If inhaled:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
If on skin:	Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing.
If in eyes:	Immediately flush with large amounts of water.
If swallowed:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Foam, dry chemical, carbon dioxide (CO₂), or water fog.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10).

Unusual Fire And Explosion Hazards: None known.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Use absorbent materials to prevent footing hazard and to contain. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing during cleanup.

SECTION 7 – HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storing: Keep away from heat, sparks and open flames.

Other Precautions: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues and vapors; treat as if full and observe all product precautions. Do not reuse empty containers.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Units
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Petroleum OilACGIH TLV: 5 mg/m³OSHA PEL: 5 mg/m³**Copper Flakes**ACGIH TLV: 1 mg/m³OSHA PEL: 1 mg/m³**Respiratory Protection (Specify Type):** None required.**Ventilation – Local Exhaust:** Acceptable**Special:** N/A**Mechanical (General):** Preferable**Other:** N/A**Protective Gloves:** Wear rubber gloves.**Eye Protection:** Chemical splash goggles (ANSI Z-87.1 or equivalent)**Other Protective Clothing Or Equipment:** Coveralls recommended.**Work/Hygienic Practices:** Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling point: 826°F (441°C) @ 760mm Hg

Specific gravity (H₂O = 1): 1.23

Vapor pressure (mmHg): 0.01 @ 68°F (20°C)

Melting point: N/A

Vapor Density (Air = 1): < 1

Evaporation rate (Ethyl Acetate = 1): > 1

Appearance/Odor: Copper/Petroleum odor

Solubility in water: Insoluble

Volatile Organic Compounds (VOC) Content
(theoretical percentage by weight): 0% or 0 g/L

Flash point: 480°F (249°C) SETA CC

Lower explosion limit: N/D

Upper explosion limit: N/D

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Heat, sparks, open flames.

Incompatibility (Materials To Avoid): Oxidizers, acids and bases.

Hazardous Decomposition Products: CO, CO₂, and fragmented hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 11 – TOXICOLOGY INFORMATION

Toxicology Data

Ingredient Name

Petroleum Oil

Oral-Rat LD50: N/D

Inhalation-Rat LC50: N/D

Copper Flakes

Oral-Rat LD50: N/D

Oral-Rat TDLo: 152 mg/kg (22W pre)

SECTION 12 – ECOLOGICAL INFORMATION

Ecological Data

Ingredient Name: **Petroleum Oil**

Food Chain Concentration Potential N/D

Waterfowl Toxicity N/D

BOD N/D

Aquatic Toxicity N/D

Ingredient Name: **Copper Flakes**

Food Chain Concentration Potential N/D

Waterfowl Toxicity N/D

BOD N/D

Aquatic Toxicity N/D

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated waste oil. Dispose of in accordance with all local, state and federal regulations.

Disposal Method: Used oil recycler

SECTION 14 – TRANSPORTATION INFORMATION

DOT:	Non-regulated
Ocean (IMDG):	Non-regulated
Air (IATA):	Non-regulated
WHMIS (Canada):	Non-regulated

SECTION 15 – REGULATORY INFORMATION

Regulatory Data

Ingredient Name:	Petroleum Oil
SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Ingredient Name:	Copper Flakes
SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	5,000 lb.
RCRA Code	N/A

SECTION 16 – OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made.

Consult RectorSeal for further information: (713) 263-8001