# CRC.

# SAFETY DATA SHEET

## 1. Identification

Product identifier Copper Anti-Seize & Lubricating Compound

Other means of identification

Product code SL35901, SL35903

Recommended use Anti-seize and lubricating compound

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

**General Information** 215-674-4300 **Technical** 800-521-3168

**Assistance** 

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

## 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air

supply during use and while product is drying. Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic		64742-52-5	50 - 60
Residual oils (petroleum), hydrotreated		64742-57-0	10 - 20
Talc (not containing asbestos fibers)		14807-96-6	10 - 20
Calcium carbonate		1317-65-3	5 - 10
Copper		7440-50-8	5 - 10

#### 4. First-aid measures

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

**Skin contact** Remove and isolate contaminated clothing and shoes. Wash off immediately with soap and plenty

of water. Get medical attention if irritation develops and persists. Wash contaminated clothing

before reuse.

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

irritation develops and persists.

**Ingestion** Rinse mouth. Drink plenty of water. Never give anything by mouth to a victim who is unconscious

or is having convulsions. Do not induce vomiting without advice from poison control center. Get

medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry powder.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

General fire hazards

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water. Prevent further leakage or spillage if safe to do so. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

#### 7. Handling and storage

Precautions for safe handling

Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Avoid release to the environment. Use care in handling/storage. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Calcium carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
.6.7 66 6)		15 mg/m3	Total dust.

Components	Air Contaminants (29 CFR 1910. Type	Value	Form	
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.	
		0.1 mg/m3	Fume.	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.	
,		2000 mg/m3 500 ppm		
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)	PEL	5 mg/m3	Mist.	
US. OSHA Table Z-3 (29 CFR 1 Components	910.1000) Type	Value	Form	
Talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	0.3 mg/m3	Total dust.	
,		0.1 mg/m3	Respirable.	
		20 mppcf		
US ACCIU Throphold Limit Vo	lues	2.4 mppcf	Respirable.	
US. ACGIH Threshold Limit Va Components	Type	Value	Form	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.	
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)	TWA	5 mg/m3	Inhalable fraction.	
Talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.	
US. NIOSH: Pocket Guide to C	hemical Hazards			
Components	Туре	Value	Form	
Calcium carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.	
		10 mg/m3	Total	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m3		
· · · · · · · · · · · · · · · · · · ·	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
Talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.	
logical limit values	No biological exposure limits noted for the ingredient(s).			
oosure guidelines (	Occupational Exposure Limits are not relevant to the current physical form of the product.			
itrols s	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.			

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC).

Wear suitable protective clothing. Other

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

> NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Solid. Physical state

Semi-solid gel. Form Color Copper. Petroleum. Odor Odor threshold Not available.

Neutral

Melting point/freezing point > 449.6 °F (> 232 °C) > 500 °F (> 260 °C) Initial boiling point and boiling

range

> 429.8 °F (> 221 °C) Cleveland Open Cup Flash point

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**Evaporation rate** Very slow. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

0.9 Flammability limit - lower

(%)

Flammability limit - upper

(%)

< 0.01 kPa Vapor pressure Vapor density > 5 (air = 1)1.09 Relative density Solubility (water) Insoluble. Partition coefficient Not available.

(n-octanol/water)

> 500 °F (> 260 °C) **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity (kinematic)** 

0 % Percent volatile

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Heat, flames and sparks. Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents. Acetylene. Vinyl compounds. Hazardous decomposition

products

Carbon oxides. Hydrocarbon fumes and smoke.

Material name: Copper Anti-Seize & Lubricating Compound SL35901, SL35903 Version #: 01 Issue date: 05-21-2015

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Prolonged skin contact may cause temporary irritation. **Eye contact** Direct contact with eyes may cause temporary irritation.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product Species Test Results

Copper Anti-Seize & Lubricating Compound

Acute
Dermal
LD50 Rabbit 3760 mg/kg estimated

Oral
LD50 Rat 2372 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Further information** This product has no known adverse effect on human health.

#### 12. Ecological information

**Ecotoxicity**The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product Species Test Results

Copper Anti-Seize & Lubricating Compound

Aquatic

Acute
Crustacea LC50 Calanoid copepod (Acartia tonsa) > 1000 mg/l, 48 hours
Fish LC50 Flatfish, flounder (Scophthalmus > 1000 mg/l, 96 hours
maximus)
Other EC50 Diatom (Skeletonema costatum) > 1000 mg/l, 72 hours

Material name: Copper Anti-Seize & Lubricating Compound SL35901, SL35903 Version #: 01 Issue date: 05-21-2015

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Components Species Test Results

Copper (CAS 7440-50-8)

**Aquatic** 

Acute

Crustacea EC50 Water flea (Daphnia magna) 0.03 mg/l, 48 hours
Fish LC50 Rainbow trout,donaldson trout 0.052 mg/l, 96 hours

(Oncorhynchus mykiss)

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) 1000 mg/l, 48 hours
Fish LC50 Rainbow trout,donaldson trout 5000 mg/l, 96 hours

(Oncorhynchus mykiss)

Talc (not containing asbestos fibers) (CAS 14807-96-6)

Aquatic

Acute

Fish LC50 Zebra danio (Danio rerio) > 100 g/l, 96 hours

**Persistence and degradability** No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal of waste from residues / unused products

This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

Hazardous waste code Not regulated.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

## 15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Copper (CAS 7440-50-8)

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Copper (CAS 7440-50-8) Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

Copper (CAS 7440-50-8) 5000 LBS

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Immediate Hazard - No
Hazard categories Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely No

hazardous substance

#### US state regulations

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Copper (CAS 7440-50-8)

Talc (not containing asbestos fibers) (CAS 14807-96-6)

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Residual oils (petroleum), hydrotreated (CAS 64742-57-0)

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

## US. New Jersey Worker and Community Right-to-Know Act

Calcium carbonate (CAS 1317-65-3)

Talc (not containing asbestos fibers) (CAS 14807-96-6)

Copper (CAS 7440-50-8)

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Residual oils (petroleum), hydrotreated (CAS 64742-57-0)

#### **US. Massachusetts RTK - Substance List**

Calcium carbonate (CAS 1317-65-3)

Copper (CAS 7440-50-8)

Residual oils (petroleum), hydrotreated (CAS 64742-57-0)

Talc (not containing asbestos fibers) (CAS 14807-96-6)

# US. Pennsylvania Worker and Community Right-to-Know Law

Copper (CAS 7440-50-8)

Calcium carbonate (CAS 1317-65-3)

Residual oils (petroleum), hydrotreated (CAS 64742-57-0) Talc (not containing asbestos fibers) (CAS 14807-96-6)

#### **US. Rhode Island RTK**

Copper (CAS 7440-50-8)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR

0 %

51.100(s))

Consumer products (40 CFR 59, Subpt. C)

Not regulated

State

**Consumer products** 

This product is regulated as an Anti-seize Lubricant (non-aerosol). This product is compliant for

use in all 50 states.

VOC content (CA) 0 % VOC content (OTC) 0 %

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

# 16. Other information, including date of preparation or last revision

Issue date 05-21-2015
Prepared by Allison Cho

Version # 01

Further information Not available.

HMIS® ratings Health: 1
Flammability: 1
Physical hazard: 0
Personal protection: B

NFPA ratings Health: 1

Flammability: 1 Instability: 0

NFPA ratings



## Disclaimer

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country(s).