

SAFETY DATA SHEET

1. Identification

Product identifier	Copper Anti-Seize & Lubricating Compoun	d
Other means of identification		-
Product Code	No. SL35903 (Item# 1007940)	
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 Assistance	800-521-3168	
Customer Service	800-272-4620	
24-Hour Emergency (CHEMTREC)	800-424-9300 (US)	
Website	www.crcindustries.com	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

OSHA delined hazarus	Not classifieu.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
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. Avoid release to the environment.
Response	Wash hands after handling. Collect spillage.
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.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
distillates (petroleum), solvent-refined heavy naphthenic		64741-96-4	50 - 60
talc (not containing asbestos fibers)	14807-96-6	20 - 30

Chemical name	Common name and synonyms	CAS number	%
calcium carbonate		471-34-1	10 - 20
copper		7440-50-8	3 - 5
amorphous fumed silica		112945-52-5	1 - 3
amorphous silica		7631-86-9	1 - 3
graphite		7782-42-5	< 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Call a physician if symptoms develop or persist. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists. Remove and isolate contaminated clothing and shoes. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur. Never give anything by mouth to a victim who is unconscious or is having convulsions. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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	Dry chemicals. Carbon dioxide (CO2). Water spray. Water fog. Foam.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.

Special protective equipment
and precautions for firefightersFirefighters must use standard protective equipment including flame retardant coat, helmet with
face shield, gloves, rubber boots, and in enclosed spaces, SCBA.General fire hazardsNo unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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	The product is immiscible with water and will sediment in water systems. Prevent product from entering drains.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Sweep up or vacuum up spillage and collect in suitable container for disposal. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Conditions for safe storage, St including any incompatibilities inc

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

Store in a cool, dry place out of direct sunlight. Keep container tightly closed. 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	Туре	Value	Form
calcium carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
graphite (CAS 7782-42-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.10			
Components	Туре	Value	Form
amorphous fumed silica (CAS 112945-52-5)	TWA	0.8 mg/m3	
		20 mppcf	
amorphous silica (CAS 7631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	
graphite (CAS 7782-42-5)	TWA	15 mppcf	
talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	0.1 mg/m3	Respirable.
,		20 mppcf	
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4)	TWA	5 mg/m3	Inhalable fraction.
graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Chemic	al Hazards		
Components	Туре	Value	Form
amorphous fumed silica (CAS 112945-52-5)	TWA	6 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
amorphous silica (CAS 7631-86-9)	TWA	6 mg/m3	
calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.
talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
ological limit values	No biological exposure limits noted fo	r the ingredient(s).	
kposure guidelines	Occupational Exposure Limits are not	relevant to the current physic	al form of the product.
ppropriate engineering ontrols	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establi wash facilities and emergency showe	oplicable, use process enclosu ain airborne levels below reco shed, maintain airborne levels	res, local exhaust ventilation, mmended exposure limits. If to an acceptable level. Eye
dividual protection measures	s, such as personal protective equipm	ent	
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection			
Hand protection	Wear protective gloves such as: Nitril	е.	
Other	Wear suitable protective clothing.		
Respiratory protection	If engineering controls are not feasible NIOSH-approved cartridge respirator breathing apparatus in confined spac generated above exposure limits. Air levels.	with an organic vapor cartridges and for emergencies. Wear	e. Use a self-contained a dust mask if dust is
Thermal hazards	Wear appropriate thermal protective of	clothing, when necessary.	
eneral hygiene onsiderations	Always observe good personal hygier and before eating, drinking, and/or sn equipment to remove contaminants.		

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Paste.
Color	Copper.
Odor	Petroleum.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	1981.4 °F (1083 °C) estimated
Initial boiling point and boiling range	680 °F (360 °C) estimated
Flash point	420 °F (215.6 °C) Cleveland Open Cup
Evaporation rate	Very slow.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	4119 hPa estimated
Vapor density	Not available.
Relative density	1.21
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	500 °F (260 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Percent volatile	54.8 % estimated
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.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Oxidizing material. Acids. Alkalies.
Hazardous decomposition products	Carbon oxides. Metal oxides. Halogenated materials.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Not known.	
Product	Species	Test Results
Copper Anti-Seize & Lub	ricating Compound	
<u>Acute</u>		
Oral		
LD50	Rat	109000 mg/kg
Components	Species	Test Results
amorphous fumed silica	(CAS 112945-52-5)	
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
amorphous silica (CAS 7	631-86-9)	
Acute		
Oral		
LD50	Rat	> 22500 mg/kg

Components	Species	Test Results	
calcium carbonate (CAS 471-34-1))		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
LC50	Rat	> 3 mg/l	
Oral			
LD50	Rat	6450 mg/kg	
listillates (petroleum), solvent-refir	ned heavy naphthenic (CAS 647	41-96-4)	
Acute			
Dermal	Dabhit		
LD50	Rabbit	> 5000 mg/kg	
Oral	Rat		
LD50	Γαι	> 5000 mg/kg	
praphite (CAS 7782-42-5)			
<u>Acute</u> Oral			
LD50	Rat	> 10000 mg/kg	
		5 5	
Skin corrosion/irritationProlonged skin contact may cause temporary irritation.Serious eye damage/eyeDirect contact with eyes may cause temporary irritation.			
Serious eye damage/eye rritation	Direct contact with eyes may t		
Respiratory or skin sensitizatior			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to		
Serm cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinog	enicity to humans.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
amorphous fumed silica (amorphous silica (CAS 76		3 Not classifiable as to carcinogenicity to humans.3 Not classifiable as to carcinogenicity to humans.	
	d Substances (29 CFR 1910.10	001-1052)	
Not regulated. US. National Toxicology Pro	gram (NTP) Report on Carcin	ogens	
Not listed.			
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 - epeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.		
12. Ecological information	1		
Ecotoxicity	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.		
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Other adverse effects	No other adverse environment	al effects (e.g. ozone depletion, photochemical ozone creation	

13. Disposal considerations

Disposal instructions	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. Not regulated.		
Hazardous waste code			
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 informat	ion		
DOT			
Not regulated as dangerou	us goods.		
ΙΑΤΑ			
Not regulated as dangerou	us goods.		
IMDG			
Not regulated as dangerou	us goods.		
15. Regulatory information	ition		
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) Exp Not regulated.	ort Notification (40 CFR 707, Subpt. D)		

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

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)

CERCLA Hazardous Substances: Reportable quantity

copper (CAS 7440-50-8)

5000 LBS

Listed.

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.

Other federal regulations

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)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
copper	7440-50-8	3 - 5

US state regulations

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

calcium carbonate (CAS 471-34-1) copper (CAS 7440-50-8) graphite (CAS 7782-42-5) talc (not containing asbestos fibers) (CAS 14807-96-6)

US. Massachusetts RTK - Substance List

amorphous fumed silica (CAS 112945-52-5) amorphous silica (CAS 7631-86-9) calcium carbonate (CAS 471-34-1) copper (CAS 7440-50-8) distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) graphite (CAS 7782-42-5) talc (not containing asbestos fibers) (CAS 14807-96-6)

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

amorphous fumed silica (CAS 112945-52-5) amorphous silica (CAS 7631-86-9) calcium carbonate (CAS 471-34-1) copper (CAS 7440-50-8) graphite (CAS 7782-42-5) talc (not containing asbestos fibers) (CAS 14807-96-6) **Rhode Island RTK**

US. Rhode Island RTK

calcium carbonate (CAS 471-34-1) copper (CAS 7440-50-8) distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) graphite (CAS 7782-42-5) talc (not containing asbestos fibers) (CAS 14807-96-6)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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

copper (CAS 7440-50-8) distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) talc (not containing asbestos fibers) (CAS 14807-96-6)

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s))	2.9 %	
Consumer products (40 CFR 59, Subpt. C)	Not regulated	
State		
Consumer products	This product is regulated as an Anti-seize Lubricant (non-aerosol). T use in all 50 states.	This product is compliant for
VOC content (CA)	2.9 %	
VOC content (OTC)	2.9 %	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

Inventory name

On inventory (yes/no)* Yes

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

*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 country(s).

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

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Prepared by	Allison Yoon
Version #	02
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