



SAFETY DATA SHEET

1. Product and company identification

Product name Copper Anti-Seize
Product code 64095NZ
Manufacturer/Supplier 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
E-mail Not available.
Emergency telephone number 24-Hour Emergency (CHEMTREC) 800-424-9300

Recommended use and Limitations on use

Recommended use Anti-seize compound.

2. Hazards identification

GHS classification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements

Symbols None.
Signal word None.
Hazard statement None.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property	CAS Number	Concentration (%)
Mica	12001-26-2	10 - 15
Limestone (calcium carbonate)	1317-65-3	8 - 10
Copper	7440-50-8	2 - 8

4. First aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.
Potential delayed effects Not available.
Personal protection for first-aid responders Not available.
Notes to physician Treat symptomatically.

5. Fire-fighting measures

Extinguishing media Water. Water spray. Foam. Dry powder. Carbon dioxide (CO₂). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Extinguishing media to avoid Do not use a solid water stream as it may scatter and spread fire.
HAZCHEM Code Number None.
Specific hazards during fire fighting None.
Special fire fighting procedures In the event of fire, cool tanks with water spray.

Protection of fire-fighters	Wear suitable protective equipment.
Hazards from combustion products	May include oxides of carbon. Hydrocarbons. Hazardous metal fumes and oxides.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.
Spill cleanup methods	Dam up. Soak up with inert absorbent material. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewer, basements or confined areas. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the MSDS.

7. Handling and storage

Handling

Precautions	Wear personal protective equipment. Ensure adequate ventilation.
Safe handling advice	Not available.
Prevention of fire and explosion	No specific recommendations.

Storage

Suitable storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible materials	Strong oxidizing agents. Acids. Fluorine.
Safe packaging materials	Keep in original container.

8. Exposure controls/personal protection

Exposure limits

New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m ³	Dust and mist.
		0.2 mg/m ³	Fume.
Mica (CAS 12001-26-2)	TWA	3 mg/m ³	Respirable dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m ³	Dust and mist.
		0.2 mg/m ³	Fume.
Mica (CAS 12001-26-2)	TWA	3 mg/m ³	Respirable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Copper (CAS 7440-50-8)	STEL	2 mg/m ³	Inhalable dusts and mists.
		1 mg/m ³	Inhalable dusts and mists.
		0.2 mg/m ³	Fume.
Limestone (calcium carbonate) (CAS 1317-65-3)	TWA	4 mg/m ³	Respirable dust.
		4 mg/m ³	Respirable.
		10 mg/m ³	Inhalable
		10 mg/m ³	Inhalable dust.
Mica (CAS 12001-26-2)	TWA	10 mg/m ³	Inhalable
		0.8 mg/m ³	Respirable.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m ³	Dust and mist.
		0.2 mg/m ³	Fume.
Limestone (calcium carbonate) (CAS 1317-65-3)	TWA	10 mg/m ³	Inspirable dust.
Mica (CAS 12001-26-2)	TWA	2.5 mg/m ³	Inspirable.

Engineering controls	General ventilation normally adequate.
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Personal protective equipment

Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Skin protection	Protective gloves.
Eye/face protection	Wear safety glasses with side shields.
Radioactive or thermal hazards	Not available.
Hygiene measures	When using, do not eat, drink or smoke. Wash contaminated clothing before reuse.

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Semi-solid gel.
Color	Copper. Bronze.
Odor	Petroleum.
Odor threshold	Not available.
pH	Neutral.
Melting point/freezing point	> 449.6 °F (> 232 °C)
Boiling point, initial boiling point, and boiling range	> 500 °F (> 260 °C)
Flash point	> 429.80 °F (> 221.00 °C)
Auto-ignition temperature	Not available.
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	0.666605493 hPa estimated
Vapor density	Not available.
Evaporation rate	Not available.
Relative density	1.09
Density	1.09 g/cm ³
Solubility	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Other data	
Flammability	Not flammable.
Flammability class	Combustible IIIB estimated
VOC (Weight %)	0.00 %

10. Stability and reactivity

Stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents. Acids. Fluorine. Acetylene vinyl compounds.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological information

Acute toxicity	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Routes of exposure	Not available.
Symptoms	Not available.
Skin corrosion/irritation	Due to lack of data the classification is not possible.
Serious eye damage/eye irritation	May cause slight eye irritation.

Respiratory sensitizer	Due to lack of data the classification is not possible.
Skin sensitizer	Due to lack of data the classification is not possible.
Germ cell mutagenicity	Due to lack of data the classification is not possible.
Carcinogenicity	Not applicable.
Toxic to reproduction	Due to lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to lack of data the classification is not possible.
Aspiration hazard	Due to lack of data the classification is not possible.
Chronic effects	None known.
Relevant negative data	Not available.
Other information	This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicological data

Product		Species	Test Results
Copper Anti-Seize			
<i>Acute</i>			
Fish	LC50	Flatfish, flounder (<i>Scophthalmus maximus</i>)	> 1000 mg/l, 96 hours
Aquatic			
<i>Acute</i>			
Crustacea	LC50	Calanoid copepod (<i>Acartia tonsa</i>)	> 1000 mg/l, 48 hours
Other	EC50	Diatom (<i>Skeletonema costatum</i>)	> 1000 mg/l, 72 hours
Components		Species	Test Results
Copper (CAS 7440-50-8)			
<i>Acute</i>			
Other	EC50	<i>Pseudokirchnerella subcapitata</i>	0.0426 - 0.0535 mg/l, 72 hours 0.031 - 0.054 mg/l, 96 hours
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	0.03 mg/l, 48 hours
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	1.25 mg/l, 96 hours
		Carp (<i>Cyprinus carpio</i>)	0.8 mg/l, 96 hours 0.3 mg/l, 96 hours
		Fathead minnow (<i>Pimephales promelas</i>)	0.2 mg/l, 96 hours 0.0068 - 0.0156 mg/l, 96 hours < 0.3 mg/l, 96 hours
		Guppy (<i>Poecilia reticulata</i>)	0.112 mg/l, 96 hours
		Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	0.052 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Ecotoxicity	Not available.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulation	Not available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
Mobility	The product is immiscible with water and will sediment in water systems.
Other hazardous effects	Not available.

13. Disposal considerations

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Not available.

14. Transport information

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

Applicable regulations

New Zealand Inventory of Chemicals (NZIoC): Registration status

Copper (CAS 7440-50-8)

HSNO Approved

Limestone (calcium carbonate) (CAS 1317-65-3)

May be used as a single component chemical under an appropriate group standard

Mica (CAS 12001-26-2)

May be used as a single component chemical under an appropriate group standard

16. Other information

References Not available.

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Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

Issue date

02-18-2013