



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name GROOVY PASTE
Product use Anti-Seize Lubricant Paste
Product code 0687
Date of issue 09/16/14 **Supersedes** 03/28/12

Emergency Telephone Numbers

For MSDS Information:
 Technical Services Group
 Telephone (780) 453-8100
 (Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency
 CANUTEC (24 Hours)
 (613) 996-6666 - Call Collect

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Section 2. Hazards Identification

Emergency overview

Not expected to produce significant adverse health effects when the recommended instructions for use are followed.

No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects **Routes of Entry** Dermal contact. Eye contact.

Eyes May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin May cause skin sensitization. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation No known significant effects or critical hazards. However, in compliance with good industrial hygiene practice, exposure to any chemical should be kept to a minimum.

Ingestion Harmful if swallowed. Can cause gastrointestinal disturbances.

Chronic effects There is no known chronic effect after exposure to this product.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

<u>Name of Hazardous Ingredients</u>	<u>CAS number</u>	<u>% by Weight</u>
COPPER; copper compounds	7440-50-8	10 - 30

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

Ingestion If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.

Section 5. Fire Fighting Measures

Flash Point	Not available.
Flammable Limits	Not available.
Flammability	Non-combustible.
Auto-ignition Temperature	
Fire-Fighting Procedures	Use an extinguishing agent suitable for the surrounding fire. Wear special protective clothing and positive pressure, self-contained breathing apparatus.
Fire hazard	In a fire or if heated, a pressure increase will occur and the container may burst. Fire will produce dense black smoke.
Products of Combustion	carbon oxides (CO, CO ₂)
Explosion hazard	Not available.

Section 6. Accidental Release Measures

Spill Clean up	Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Wash thoroughly after handling.
Storage	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name**

copper

Exposure limits**CA Alberta Provincial (Canada, 4/2009).**8 hrs OEL: 1 mg/m³, (as Cu) 8 hour(s). Form: Dusts and Mists8 hrs OEL: 0.2 mg/m³ 8 hour(s). Form: Fume**CA British Columbia Provincial (Canada, 9/2010).**TWA: 1 mg/m³, (as Cu) 8 hour(s). Form: Dusts and mistsTWA: 0.2 mg/m³, (as Cu) 8 hour(s). Form: Fume**CA Ontario Provincial (Canada, 7/2010).**TWA: 1 mg/m³ 8 hour(s). Form: dust and mistsTWA: 0.2 mg/m³ 8 hour(s).**CA Quebec Provincial (Canada, 6/2008).**TWAEV: 1 mg/m³, (as Cu) 8 hour(s). Form: dusts & mistsTWAEV: 0.2 mg/m³, (as Cu) 8 hour(s). Form: fume**Personal Protective Equipment (PPE)**

Eyes	Recommended: Safety glasses.	
Hands and Body	Recommended: For prolonged or repeated handling, use the following type of gloves: Neoprene Nitrile Rubber	
Respiratory	Recommended: Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Viscous liquid. Paste.)	Color Opaque. Gray.
pH	Not available.	Odor Petroleum-like. [Slight]
Boiling Point	Not determined.	Vapor Pressure Not determined.
Specific Gravity	1.394	Vapor Density >1 [Air = 1]
Solubility	Insoluble in the following materials: cold water and hot water.	Evaporation Rate Not determined.
Freezing Point		VOC (Consumer) 0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Slightly reactive or incompatible with the following materials: oxidizing materials and alkalis.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Acute Toxicity**Section 12. Ecological Information**

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

copper	-	Acute EC50 1100 ug/L Fresh water	Aquatic plants - Duckweed - Lemna minor	4 days
	-	Acute EC50 2.1 ug/L Fresh water	Daphnia - Water flea - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling) - <48 hours	48 hours
	-	Acute IC50 13 ug/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	-	Acute IC50 5.4 mg/L Marine water	Aquatic plants - Plant Kingdom - Plantae - Exponential growth phase	72 hours
	-	Acute LC50 0.072 ug/L Marine water	Crustaceans - Scud Order - Amphipoda - Adult - 9 mm	48 hours
	-	Acute LC50 7.56 ug/L Marine water	Fish - Mudskipper - Periophthalmus waltoni - Adult	96 hours
	-	Chronic NOEC 2 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	21 days
	-	Chronic NOEC 0.8 ug/L Fresh water	Fish - Nile tilapia - Tilapia nilotica - Juvenile (Fledgling, Hatchling, Weanling) - 8.3 g	6 weeks

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not available.	Not available.	Not available.	-		-

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information**Canada****WHMIS (Canada)**

Class D-2B: Material causing other toxic effects (Toxic).

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

Section 16. Other Information

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.
Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*