



MATERIAL SAFETY DATA SHEET

Product name: Copper Cote Grease

1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY: Hi-Tec Oil Traders Pty Ltd.
ADDRESS: Po Box 322 Castle Hill NSW 1765
5 Tarlington Place, Smithfield NSW 2164
TELEPHONE NUMBER: 1300 796 009
FAX NUMBER: (02) 9604 1611

PRODUCT NAME: Copper Cote Grease
OTHER NAMES: None
MANUFACTURER'S PRODUCT CODE: HI7-1022-
USE: Copper and graphite based lubricant designed to minimize seizing of equipment.

2. STATEMENT OF HAZARDOUS NATURE

This product is classified as NON HAZARDOUS according to NOHSC criteria.
Non Dangerous goods according to Australian Dangerous Goods Code.

3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

INGREDIENTS

CHEMICAL ENTITY:	CAS No.	PROPORTION
Residual Oils(Petroleum), Solvent Dewaxed	64742-62-7	> 60%
Graphite	7782-42-5	10% - 30%
Copper Fines	7440-50-8	10% - 30%
Organic Modified Clay(Organophilic Clay)	68953-58-2	< 10%
1,2,3-Propanetriol(Glycerol Anhydrous)	56-81-5	< 10%
Zinc Diamyldithiocarbamate	15337-18-5	< 10%
Tri-Sodium Phosphate Anhydrous	7601-54-9	< 10%

4. FIRST AID MEASURES / HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

SWALLOWED: This is not expected to be a means of entry during routine operation. Ingestion of small quantities should not cause irritation.

EYE: May cause slight irritation to the eyes.

SKIN: May be mildly irritating to the skin.

INHALED: No data to indicate a toxic inhalation hazard. Inhalation of vapours or mist (generated at elevated temperatures) may cause irritation to the nose and throat.

CHRONIC: Prolonged or repeated skin contact may lead to drying of the skin.





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4. FIRST AID MEASURES / HEALTH HAZARD INFORMATION (CONT.)

FIRST AID	SWALLOWED:	If a large quantity is ingested seek medical attention. It may be necessary to induce vomiting, taking extreme care that the person does not aspirate into the lungs. If aspiration occurs, urgent medical attention should be sought.
	EYE:	Wash with copious amounts of water for 15 minutes and seek medical advice if irritation develops or persists.
	SKIN:	Remove contaminated clothing and wash skin thoroughly with plenty of soap and water. High pressure injection through the skin requires urgent medical attention for possible incision, irrigation and/or debridement. Contact with molten material will require treatment by a physician for burns (Do not remove material).
	INHALED:	Remove person to fresh air and seek medical advice. If not breathing, apply artificial respiration and seek urgent medical aid.
	FIRST AID FACILITIES:	Eye wash fountains and safety showers are recommended.
ADVICE TO DOCTOR:		Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABILITY

FIRE HAZARDS:	Not flammable under conditions of use. Is a combustible solid that will burn if preheated.
SOURCES OF IGNITION ADVICE:	Not applicable.
HAZCHEM CODE:	Not applicable.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimize exposure. If possible, contain the spill. Place inert, non-combustible, absorbent material onto the spillage. Use clean, non-sparking tools to collect the material and place into a suitable labelled container. If large quantities of this material enter the waterways, contact the Environmental Protection Authority, or your local Waste Water Authority.



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7. HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING:** Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene, i.e. washing hands prior to eating, drinking or going to the toilet. Build-up of mists or vapours in the working environment must be prevented.
- STORAGE AND TRANSPORT:** Classified as a combustible solid. Store in a well-ventilated area away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Do not store in plastic containers unless approved for this application.
- SPILLS AND DISPOSAL:** Spills are easily contained due to the nature of the product. Caution: The product may be slippery. The product should be shovelled into a metal drum and treated as a solid waste. Follow state or local regulations for the disposal of the waste. Clean area with soap and water. Do not allow product to enter drains, sewers or water courses – inform local authorities if this occurs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- EXPOSURE STANDARDS:** If the material is subjected to high temperature operations and mists or vapours are generated the Manufacturer recommends: Time Weighted Average (TWA): 5 mg/m^3 (oil mist). Short Term Exposure Limit (STEL): 10 mg/m^3 (oil mist).
- ENGINEERING CONTROLS:** Special ventilation is not normally required. However, in the operation of certain equipment or at elevated temperatures mists or vapour may be generated and localised exhaust ventilation should be provided to maintain airborne concentration levels below the Manufacturer recommended exposure standard.

PERSONAL PROTECTION

- RESPIRATOR TYPE (AS1716):** During routine operation a respirator is not required. However, if mists or vapours are generated, an approved organic vapour / particulate respirator is required.
- GLOVE TYPE:** PVC, Neoprene or Nitrile gloves are recommended.
- EYE PROTECTION:** Safety glasses or goggles are recommended to avoid eye contact. If the material is used at elevated temperatures or under pressure a full face shield should be worn.
- CLOTHING:** During normal operating procedures, long sleeved clothing is recommended to provide skin protection. Soiled clothing should be washed with detergent prior to re-use.



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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE: Smooth copper coloured grease.

VAPOUR PRESSURE (Pa or mmHg at 20°C): Not available.

DENSITY @ 15°C (g/mL): Typically 0.95

FLASHPOINT(°C): >200°C (ASTM D-93)

FLAMMABILITY LIMITS (%): Not available.

FLAMMABILITY: Non Flammable, but combustible.

SOLUBILITY IN WATER (g/L): Not miscible with water.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Heat, direct sunlight, open flames or other sources of ignition.

INCOMPATIBLE MATERIALS: Strong oxidising agents.

HAZARDOUS DECOMPOSITION: Thermal decomposition and combustion produce noxious fumes containing oxides of carbon.

HAZARDOUS REACTIONS: Hazardous reaction with strong oxidising agents.

HAZARDOUS POLYMERISATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA:

ORAL TOXICITY (RATS): Based upon testing of similar products and/or components, this material is considered to be relatively non-toxic with a LD50: > 2000 mg/Kg.

DERMAL TOXICITY (RABBITS): Based upon testing of similar products and/or components, this material is considered to be relatively non-toxic with a LD50: > 2000 mg/Kg.

EYE IRRITATION (RABBITS): Based upon testing of similar products and/or components, this material is considered to be relatively non-irritating with a Draize Score: Greater than 6, but less than 15.

SKIN IRRITATION (RABBITS): Based upon testing of similar products and/or components, this material is considered to be relatively non-irritating with a Primary Irritation Index: Greater than 0.5, but less than 3.





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11. TOXICOLOGICAL INFORMATION (CONT)

- SUBCHRONIC TOXICITY (RATS):** Based upon testing of similar products and/or components, this material is considered to show no adverse effects by dermal application to rats.
- REPRODUCTIVE TOXICITY (RATS):** Based upon testing of similar products and/or components, this material is considered to show no adverse effects in either the mothers or their offspring by dermal exposure of pregnant rats.
- CHRONIC TOXICITY (MICE):** Based upon testing of similar products and/or components, this material is considered to show no evidence of carcinogenic effects by chronic mouse skin painting studies.
- SENSITISATION (GUINEA PIGS):** Based upon testing of similar products and/or components, this material is considered to show no evidence of skin sensitisation to guinea pigs during studies.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No data available for this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS: Dispose of according to federal, E.P.A. and state regulations.

14. TRANSPORT INFORMATION

TRANSPORT INFORMATION: Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. CONTACT POINT

TITLE: General Manager
TELEPHONE NUMBER: 1300 796 009

LAST CHANGE: Document issued: 1 November 2012
Reason/s for revision: New

EH211110/1
END OF MSDS