

MATERIAL SAFETY DATA SHEET

Product name: Bio-Rock Drill 320

1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY: Hi-Tec Oil Traders Pty Ltd. (ABN 28 053 837 362)
ADDRESS: PO Box 322 Castle Hill NSW 1765
5 Tarlington Place, Smithfield NSW 2164

TELEPHONE NUMBER: 1300 796 009
FAX NUMBER: (02) 9604 1611

EMERGENCY TELEPHONE NUMBER: 1300 796 009

PRODUCT NAME: Bio-Rock Drill 320

OTHER NAMES: None

MANUFACTURER'S PRODUCT CODE:

USE: Vegetable oil based rock drill fluid

ADDITIONAL INFORMATION: Refer to Product Information Sheet for additional information.

OTHER INFORMATION: Visit our website: www.hi-tecoils.com.au
Email: hitecoils@hi-tecoils.com.au

2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: NON-HAZARDOUS SUBSTANCE
NON-DANGEROUS GOODS

Hazard classification according to criteria of NOHSC.
Dangerous goods classification according to Australian
Dangerous Goods Code.

RISK PHRASE (S):

IRRITANCY OF PRODUCT: Not classified as an irritant.

SENSITISATION OF PRODUCT: Not known to be a sensitiser.

TERATOGENICITY: No teratogenic effects known.

OTHER INFORMATION: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and environment on disposal. All used oils should be handled with caution and skin contact avoided as far as possible.

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3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

<u>Chemical Identity</u>	<u>CAS Number</u>	<u>Proportion</u>
Vegetable Oil and other Non-hazardous Oils	N/A	60 - 100%
Molybdenum Disulphide	1317-33-5	0.25%
Stabilisers, antiwear additives, corrosion and foam inhibitors,	N/A	0 – 10%

4. FIRST AID MEASURES

Swallowed:	Rinse mouth with water. Give water to drink. Do not induce vomiting. Seek medical advice if nausea or vomiting occurs.
Eye:	Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
Skin:	Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before reuse. If irritation occurs seek medical advice. High-pressure injection through the skin requires URGENT medical attention for possible incision, irrigation and/or debridement.
Inhaled:	Move to fresh air. Seek medical advice if nausea or vomiting occurs.
First Aid Facilities:	Ensure eye bath and safety shower are available and ready for use.
Advice to Doctor:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam, Carbon Dioxide, Dry Chemical

Hazards from combustion products: In the event of a fire the following can be released: Carbon monoxide, carbon dioxide, sulphur oxides.

Precautions for fire fighters and special protective equipment: Fire fighters should wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures: Slippery when spilt, clean up immediately. Wear protective equipment to prevent skin and eye damage.

Methods and materials for containment and clean up: Prevent run off into drains and waterways. Contain spills with absorbent material such as sand or soil. Collect and seal in properly labelled containers for disposal. Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal site. For small spills, wash with plenty of water.

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7. HANDLING AND STORAGE

Precautions for safe handling: Avoid skin and eye contact. Wash hands after using product.

Conditions for safe storage: Keep container tightly closed. Combustible liquid.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards: None Allocated.

Biological limit values: None Allocated.

Engineering controls: Ensure adequate ventilation to keep exposure levels to a minimum.

Personal protective equipment: Wear safety glasses or goggles, impermeable gloves (PVC or neoprene) and overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black oily liquid.

Boiling Point: >180°C

Pour Point: -15°C

Solubility in Water: Insoluble

Specific Gravity: 0.97 @ 20°C

Flashpoint: > 150°C

Flammability Limits: Not Available

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.

Conditions to avoid: None Known

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: None with proper storage and handling.

Hazardous reactions: No hazardous reactions with proper storage and handling.

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11. TOXICOLOGICAL INFORMATION

Acute effects:

- Swallowed:** Not classified as harmful, however ingestion of large quantities may cause nausea, vomiting or diarrhoea
- Eye Contact :** Moderately irritating to the eye
- Skin :** Not irritating to the skin. Repeated or prolonged exposure with skin may cause drying.
- Inhaled :** No adverse effects expected from inhalation

Chronic effects:

No long term adverse effects expected

12. ECOLOGICAL INFORMATION

Ecotoxicity: Tests conducted in 1990 at levels of up to 750 mg/L powdered molybdenum disulphide showed zero mortality for rainbow trout (*Salmo gairdneri*).

Persistence and degradability: Product is vegetable oil based and is easily degraded.

Mobility: Product is insoluble in water and will float on the surface.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: In accordance with local authority regulations, take to special waste incineration plant. If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

Special precautions for landfill or incineration: Avoid contaminating waterways

14. TRANSPORT INFORMATION

UN Number: None Allocated

UN Proper Shipping Name: None Allocated

Class: None Allocated

Packing Group: None Allocated

Hazchem Code: None Allocated

Road and Rail Transport: Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Marine Transport: Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport: Not classified as Dangerous Goods by the criteria of the international Air Transport (IATA) Dangerous Goods Regulations for transport by air.

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15. REGULATORY INFORMATION

Classification: None Allocated

Poisons Schedule: None Allocated

This material is listed on the Australian Inventory of Chemical Substances (AICS)

16. OTHER INFORMATION

CONTACT PERSON/POINT: General Manager 1300 796 009

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Material Safety Data Sheets are updated frequently. Please ensure you have a current copy.

LITERATURE REFERENCES:

- * NOHSC: 2011 National Code of Practice for the preparation of Material Safety Data Sheets.
- * NOHSC: 1008 Approved Criteria for Classifying Hazardous Substances.
- * NOHSC: 10005 List of Designated Hazardous Substances.
- * NOHSC: 1005 Control of Workplace Hazardous Substances, National Code of Practice.
- * NOHSC: 2007 Control of Workplace Hazardous Substances, National Code of Practice.
- * NOHSC: 1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards.
- * NOHSC: 3008 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, Guidance Note.
- * NOHSC: 1015 Storage and Handling of Workplace Dangerous Goods, National Standard.
- * NOHSC: 2017 Storage and Handling of Workplace Dangerous Goods, National Code of Practice.
- * SUSDP: Standard for the Uniform Scheduling of Drugs and Poisons
- * ADG: Australian Dangerous Goods Code
- * MSDS of component materials.

LAST CHANGE: Supercedes document issued: New
Reason/s for revision: Alignment to NOHSC requirements.

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END OF MSDS