

ROCK DRILL LUBRICANT – 320

MATERIAL SAFETY DATA SHEET

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|---------------------|----------------------------|-----------------------------|
| MSDS No: | | QUICK SMART PRODUCTS |
| Product Name: | ROCK DRILL LUBRICANT - 320 | 53 ASSEMBLY DRIVE |
| Manufacturers Code: | RDK5, RDK20, RDL205 | TULLAMARINE VIC 3043 |
| Date: | October 2011 | ABN: 40 959 725 049 |
| | | (03) 9338 6655 (BH) |
| | | (03) 9336 7945 (AH) |

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ROCK DRILL LUBRICANT - 320
Company Name: QUICK SMART PRODUCTS
Address: 53 Assembly Drive
Tullamarine Vic 3043
Telephone/Fax: (03) 9338 6655 (BH) Poisons Information Centre 131126 (AH) Fax: (03) 9335 2598
Recommended Use: Heavy Duty Rock Drill Lubricating Oil – ISO 320.

2. HAZARDS IDENTIFICATION

Statement of Hazardous/Dangerous Nature: NON-HAZARDOUS SUBSTANCE
NON-DANGEROUS GOODS
Classified as Non-Hazardous according to the criteria of NOHSC Australia.
Classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Entity | CAS No. | W%W |
|--|---------|-----|
| Product contains mixture of paraffinic Distillates and additives | NA | 100 |

4. FIRST AID MEASURES

Poison Information Centres (131126) in each State Capital City can provide additional assistance for scheduled poisons.

Inhalation: Remove the source of contamination and move the affected person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. If the victim is not breathing, apply artificial resuscitation and seek urgent medical attention. In serious cases of over-exposure, seek immediate medical attention.

Ingestion: If swallowed DO NOT induce vomiting. Wash out mouth and lips thoroughly with water. Seek immediate medical assistance. For advice, contact Poisons Information Centre on 121126 or a doctor.

Eye: Hold eyelid open and flush with copious amounts of clean water for at least 15 minutes or until all contaminants are washed out completely. If irritation persists seek medical attention.

Skin: Remove contaminated clothing and launder before re-use. Wash contaminated skin with soap and copious amounts of clean water. Discard internally contaminated items, like gloves and footwear. If irritation develops seek medical attention.

First Aid Facilities: Normal washroom facilities are generally suitable. It is recommended that an eyewash station and safety showers be available and ready for use.

Advice to Doctor: Treat symptomatically.

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5. FIRE FIGHTING MEASURES

- Suitable Extinguishing Media:** Use water fog, water mist, foam, dry chemical powders or carbon dioxide.
- Specific Methods:** Fire Fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes and products of combustion. Water spray may be used to cool down heat-exposed containers. If safe to do so, remove containers from path of fire.
- Hazards from Combustion Products:** Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.
- Specific Hazards:** Combustible liquid. This product will burn if exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

- Spills:** Spillages are slippery. Avoid accidents, clean up immediately. Personnel involved in cleaning up any spills are to wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Cordon off the spillage area. Isolate the source of the spillage or leak if safe to do so. Contain the spill using inert non-combustible absorbent material. Prevent run off into drains, sewers and waterways. Advise local authorities immediately if release into sewer and/or waterways is expected to have occurred. Use clean non-sparking tools to collect the material and place into suitable labelled containers for disposal. Rinse the area clean with detergent and excess water.
- Disposal:** Dispose of in accordance with Federal, EPA, State and Local Regulations. Assure conformity with all applicable regulations. Disposal into sewer system is not permitted.

7. HANDLING AND STORAGE

- Precautions for Safe Handling:** Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye contact. Handle and use the material in a well ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc) readily available. Work from suitable, labelled, fire-resistant containers. Keep containers closed when not in use. Take precautionary measure against static discharges. Earth or bond all equipment. Do not empty into drains. Maintain a high level of personal hygiene when using the product, i.e. always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.
- Conditions for Safe Storage:** Store in a cool, dry, well ventilated area away from sources of ignition. This product should be stored away from footstuffs and strong oxidising agents. Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimised. Water contamination should be avoided.
- Storage Regulations:** This material is classified as a C2 Combustible Liquid for the purpose of storage and handling, in accordance with the requirements of AS1940. Store in a clean, dry, cool, well ventilated area away from naked flames, sparks and other sources of ignition. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks.

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8. EXPOSURE CONTROL / PERSONAL PROTECTION

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| Occupational Exposure Limits: | No exposure standards have been established for this material, however, the TWA National Occupational Health and Safety Commission (NOHSC) exposure standards for oil mist is 5 mg/m ³ . As with all chemicals, exposure should be kept to the lowest possible levels. As published by the National Occupational Health and Safety Commission (NOHSC): TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. |
| Biological Limit: | No biological limit allocated. |
| Engineering Controls: | Special ventilation is not normally required due to low volatility of the product at normal temperatures. In the operation of certain equipment or at higher temperatures, mist or vapour may be generated and exhaust ventilation should be used to maintain airborne concentration levels below the exposure limit. Where no exposure standard is stated, keep as low as practicable. |
| Respiratory Protection: | If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices. |
| Eye Protection: | Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standards AS/NZS 1337 – Eye Protectors for Industrial Applications. |
| Hand Protection: | Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 – Occupational Protective Gloves – Selection, Use and Maintenance. |
| Body Protection: | Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant plastic apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919 – Industrial Clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------------|-----------------------------|
| Appearance: | Yellowish brown liquid |
| Odour: | NA |
| Autoignition Temp: | NA |
| Flash Point(°C): | 233°C MIN (COC) ASTM D92 |
| Boiling Point (°C): | NA |
| Flammability Limits (%): | Class C2 Combustible Liquid |

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| Vapour Pressure: | NA |
| Solubility in Water: | Insoluble |
| Specific Gravity (20°C): | Approx 0.9 @ 15°C |
| Vapour Density: | NA |
| Evaporation Rate: | N/A |
| Percent Volatiles: | NA |

10. STABILITY AND REACTIVITY

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| Stability: | Stable under normal conditions of storage and handling. |
| Conditions to Avoid: | Avoid sources of ignition, heat, open flames or direct sunlight. |
| Incompatible Materials: | Strong oxidising agents. |
| Hazardous Decomposition Products: | Thermal decomposition and combustion may produce noxious fumes such as oxides of carbon. |
| Hazardous Polymerization: | Will not occur |

11. TOXICOLOGICAL INFORMATION

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| Toxicology Information: | No toxicity data is available for this specific product. |
| Inhalation: | Repeated or prolonged inhalation of vapours or mists generated in confined, poorly ventilated areas or at elevated temperatures, may cause respiratory system irritation or other pulmonary effects, headache, dizziness, nausea. Symptoms of respiratory irritation may include coughing and breathing difficulties. |
| Ingestion: | May cause irritation of the gastrointestinal tract with nausea, vomiting and diarrhoea. |
| Skin: | Repeated or prolonged contact may dry and defat the skin, resulting in skin irritation and possibly lead to dermatitis. |
| Eye: | Eye contact may cause transient irritation with redness, stinging, blurring and tearing. |
| Chronic Effects: | Prolonged or repeated contact may result in skin irritation leading to dermatitis. Repeated exposure to vapour or mist at concentrations in air that exceed exposure standards can cause respiratory irritation, discomfort or other pulmonary effects. |

12. ECOLOGICAL INFORMATION

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|-------------------------------------|--|
| Ecotoxicity: | No ecological data is available for this specific product. |
| Persistence / Degradability: | Not available. |
| Mobility: | Not available. |
| Bioaccumulative Potential: | Not available. |

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Environmental Protection: This material may present environmental risks common to oil spills. Prevent material from entering the drains, sewers, waterways and soil environment.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations: This material may present environmental risks common to oil spills. Dispose of waste according to Federal, EPA, State and Local Regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION

Transport Information: Classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

15. REGULATORY INFORMATION

Poisons Schedule: Not Scheduled.

AICS (Australia): All ingredients are listed in the Australian Inventory of Chemical Substances (AICS)

16. OTHER INFORMATION

Contact Person/Point: Technical Information: (03) 9338 6655

Date of Preparation or last revision of MSDS: MSDS reviewed: 10 October 2011

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

END OF MSDS