



Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

SAFETY DATA SHEET

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Version: 3

Product name: Biocide 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: Biocide 320

OTHER NAMES: None

MANUFACTURER'S PRODUCT CODE: HI8-3049

USE: Bactericide for preservation of water dispersible metal working fluids.

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

STATEMENT OF HAZARDOUS NATURE: HAZARDOUS SUBSTANCE
NON-DANGEROUS GOODS
Hazard classification according to criteria of NOHSC and GHS.
Dangerous goods classification according to the Australian Dangerous Goods.

GHS LABEL ELEMENTS:



SIGNAL WORD: DANGER



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2. HAZARDS IDENTIFICATION (CONT)

GHS HAZARD CLASSIFICATIONS

ACUTE TOXICITY (ORAL):	Category 4
ACUTE TOXICITY (INHALATION):	Category 2
SERIOUS EYE DAMAGE/IRRITATION:	Category 2A
SKIN SENSITISATION:	Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):	Category 1

HAZARD STATEMENTS:	H300: Fatal if inhaled. H302: Harmful if swallowed. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H372: Causes damage to organs through prolonged or repeated exposure.
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PREVENTION STATEMENTS:	P260: Do not breathe vapour. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear eye or face protection. P285: In case of inadequate ventilation wear respiratory protection.
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RESPONSE STATEMENTS:	P314: Get medical advice or attention if you feel unwell. P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310: Immediately call the POISON INFORMATION CENTRE on 13 11 26 or doctor/physician. P302+352: IF ON SKIN: Wash with plenty of soap and water. P333+313: If skin irritation or rash occurs: Get medical advice or attention. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313: If eye irritation persists: Get medical advice or attention.
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DISPOSAL STATEMENT:	P501: Dispose of contents/container to an approved waste disposal plant.
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OTHER HAZARDS:	None known.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISTICS:	Liquid
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INGREDIENTS:-

CHEMICAL ENTITY	CAS NO	PROPORTION (% w/w)
2, 2', 2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol	4719-04-4	≥ 75 - ≤ 90
Ingredients determined to be non-hazardous		To 100%



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4. FIRST AID MEASURES

GENERAL INFORMATION:

You should call the POISONS INFORMATION CENTRE if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

INHALATION:

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

SKIN CONTACT:

Wash with plenty of soap and water. Remove contaminated clothing and wash it before reuse. Get medical attention if symptoms occur.

EYE CONTACT:

Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Get medical attention if symptoms occur.

INGESTION:

Get medical attention. Ingestion may cause gastrointestinal irritation and diarrhea. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

INHALATION:

Systemic toxicity, breathing difficulty or shortness of breath, coughing.

SKIN CONTACT:

Irritation, redness, skin rash or hives.

EYE CONTACT:

Pain or irritation, redness, watering.

INGESTION:

Stomach pains, nausea or vomiting, diarrhea.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES TO DOCTOR:

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SPECIFIC TREATMENTS:

No specific treatment.

PROTECTION OF FIRST AIDERS:

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Use personal protective equipment as required.



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5. FIRE FIGHTING MEASURES

FIRE/EXPLOSION HAZARD

SUITABLE EXTINGUISHING MEDIA:

Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO₂, water spray (fog) or foam.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

In a fire or if heated, a pressure increase will occur and the container may burst.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

In a fire, hazardous decomposition products may be produced. carbon oxides (CO, CO₂) nitrogen oxides.

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

FOR NON-EMERGENCY PERSONNEL:

No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8). Keep unnecessary personnel away. Avoid breathing vapour or mist. Provide adequate ventilation.

FOR EMERGENCY RESPONDERS:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Evacuate area.

ENVIRONMENTAL PRECAUTIONS:

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Do not allow any potentially contaminated water, including rain water, runoff from fire fighting or spills, to enter any waterway, sewer or drain.



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6. ACCIDENTAL RELEASE MEASURES (CONT)

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

SMALL SPILL:

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

LARGE SPILL:

Stop leak if without risk. Move containers from spill area. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

PROTECTIVE MEASURES:

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES:

Store in accordance with local regulations. 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. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS:

None

BIOLOGICAL EXPOSURE INDICES (BEI):

None.

APPROPRIATE ENGINEERING CONTROLS:

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

ENVIRONMENTAL EXPOSURE CONTROLS:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

HYGIENE MEASURES:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Keep equipment clean.

EYE/FACE PROTECTION:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

HAND PROTECTION:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

OTHER SKIN PROTECTION:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

RESPIRATORY PROTECTION:

Wear appropriate respiratory protection.

THERMAL HAZARDS:

Not expected under normal use. Not relevant/applicable due to nature of the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL & APPEARANCE:

Liquid

COLOUR:

Colourless to light yellow

ODOUR:

Amine like

ODOUR THRESHOLD:

Not available





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9. PHYSICAL AND CHEMICAL PROPERTIES (CONT)

pH:	9 to 11
BOILING POINT/RANGE (°C):	110.5
MELTING POINT/FREEZING POINT (°C):	Not available
FLASH POINT (°C):	Open cup: Not applicable
EVAPORATION RATE:	Not available
FLAMMABILITY (SOLID, GAS):	Not available
FLAMMABILITY LIMIT (UPPER):	Not available
FLAMMABILITY LIMIT (LOWER):	Not available
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	1.14 to 1.17
SOLUBILITY (IES)	Not available
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE (°C):	Not available
DECOMPOSITION TEMPERATURE:	Not available
KINEMATIC VISCOSITY:	Not available
OXIDISING PROPERTIES:	Not available
EXPLOSIVE PROPERTIES:	Not available
DENSITY:	Not available

10. STABILITY AND REACTIVITY

REACTIVITY:	No specific test data related to reactivity available for this product or its ingredients.
CHEMICAL STABILITY:	The product is stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	Under normal conditions of storage and use, hazardous reactions will not occur.



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10. STABILITY AND REACTIVITY (CONT)

CONDITIONS TO AVOID:	No specific measures identified.
INCOMPATIBLE MATERIALS:	Strong oxidizing materials, strong acids, strong alkalis.
HAZARDOUS DECOMPOSITION PRODUCTS:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY: Fatal if inhaled. Harmful if swallowed

ACUTE TOXICITY ESTIMATES: Oral – 978.21 mg/kg
Inhalation (dusts and mists) – 0.48 mg/l

NUMERICAL MEASURES OF TOXICITY:

<u>PRODUCT/INGREDIENT NAME</u>	<u>RESULT</u>	<u>SPECIES</u>	<u>DOSE</u>	<u>EXPOSURE</u>
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol	LC50 Inhalation Dusts and mists	Rat	0.371 mg/l	4 hours
	LD50 Oral	Rat	763 mg/kg	-

IRRITATION/CORROSION: Causes severe eye damage.

SENSITISATION : May cause sensitization by skin contact

MUTAGENICITY: Based on available data, the classification criteria are not met.

CARCINOGENICITY: Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY: Based on available data, the classification criteria are not met.

STOT (SINGLE EXPOSURE): Based on available data, the classification criteria are not met.

STOT (REPEATED EXPOSURE): May cause damage to organs through prolonged or repeated exposure.

<u>NAME</u>	<u>CATEGORY</u>	<u>ROUTE OF EXPOSURE</u>	<u>TARGET ORGANS</u>
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	Category 1	Inhalation	-

ASPIRATION HAZARD: Based on available data, the classification criteria are not met.

OTHER INFORMATION: None identified



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11. TOXICOLOGICAL INFORMATION (CONT)

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE

INHALATION:	Fatal if inhaled.
SKIN CONTACT:	May cause sensitization by skin contact.
EYE CONTACT:	Causes serious eye damage.
INGESTION:	Harmful if swallowed.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE

None identified

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

INHALATION:	Not expected under normal use.
SKIN CONTACT:	Pain or irritation, redness, skin rash or hives.
EYE CONTACT:	Pain, redness, watering, burns.
INGESTION:	Not expected under normal use.

12. ECOLOGICAL INFORMATION

No known significant effects or critical hazards.

TOXICITY

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol	Acute EC50 6.66 mg/l	Algae – Desmodesmus subspicatus	72 hours
	Acute EC50 9 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 12 mg/l	Fish - Brachydanio rerio	96 hours

PERSISTENCE AND DEGRADABILITY: Not available.

BIOACCUMULATIVE POTENTIAL

PRODUCT/INGREDIENT NAME	LOGPow	BCF	POTENTIAL
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol	-2	-	low

MOBILITY IN SOIL:

Soil/water partition coefficient (K_{oc}): Not available

OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.



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13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Empty containers or liners may retain some product residues. Empty containers retain product residue and can be hazardous. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

14. TRANSPORT INFORMATION



PROPER SHIPPING NAME:

TOXIC LIQUID, ORGANIC, N.O.S. (2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl) triethanol)

UN NO:

2810

DANGEROUS GOODS CLASS:

6.1

SUBSIDIARY RISK 1:

None Allocated

PACKING GROUP:

II

HAZCHEM CODE:

2x

MARINE POLLUTANT:

No

ADDITIONAL INFORMATION

ROAD & RAIL TRANSPORT

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

SPECIAL PROVISIONS:

274

MARITIME TRANSPORT

Not classified as a Dangerous Good according to the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

EMERGENCY SCHEDULES:

F-A, S-A

SPECIAL PROVISIONS:

274



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14. TRANSPORT INFORMATION (CONT)

AIR TRANSPORT

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

QUANTITY LIMITATION:

Passenger and Cargo Aircraft: 5 L. Packaging instructions: 654.

Cargo Aircraft Only: 60 L. Packaging instructions: 662. Limited Quantities -

Passenger Aircraft: 1 L. Packaging instructions: Y641.

SPECIAL PROVISIONS:

A3, A4, A137

SPECIAL PRECAUTIONS FOR USER

TRANSPORT WITHIN USER'S PREMISES:

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION

POISON SCHEDULE:

Not Scheduled.

PACKING & LABELLING:

No special packaging or labelling requirements.

AUSTRALIAN INVENTORY STATUS:

All components are listed or exempted.

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.

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



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16. OTHER INFORMATION (CONT)

LITERATURE REFERENCES:

- * NOHSC: 2011 National Code of Practice for the preparation of Material Safety Data Sheets.
- * Safe Work Australia: 2016 Preparation of Safety Data Sheets for Hazardous Chemicals.
- * 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:

Supersedes document issued: 5 June 2017.

Reason/s for revision: Minor editorial changes to comply with GHS requirements.

MR221021/1

END OF SDS



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