

MATERIAL SAFETY DATA SHEET

Product name: Bugrid

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: Bugrid

OTHER NAMES: None

MANUFACTURER'S PRODUCT CODE: HI8-

USE: Biocide

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: HAZARDOUS SUBSTANCE
NON-DANGEROUS GOODS
POISON S5

RISK PHRASE (S): Hazard classification according to criteria of NOHSC.
Dangerous goods classification according to Australian Dangerous Goods Code.
R20 Harmful by inhalation
R21 Harmful in contact with skin
R33 Danger of cumulative effects

SAFETY PHRASE(S):

IRRITANCY OF PRODUCT: Not classified as an irritant.

SENSITISATION OF PRODUCT: Not classified as a sensitiser.

TERATOGENICITY: No teratogenic effects known.

MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION (CONT)

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.

3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

CHEMICAL CHARACTERISTICS: Liquid

INGREDIENTS:-

CHEMICAL ENTITY:	CAS No.	PROPORTION
Performance additive		0 - 10%
Emulsifier		0 - 10 %
Hydrocarbon		60 -100%

4. FIRST AID MEASURES

HEALTH EFFECTS

Primary threat is respiratory failure from petroleum distillate ingestion and inhalation.

SWALLOWED: If a large quantity is ingested seek immediate medical attention. Give water to wash out mouth. **DO NOT** induce vomiting. If vomiting occurs get immediate medical attention due to aspiration into lungs risk.

EYE: Immediately irrigate with copious amounts of water for at least 15 minutes. Eyelids to be held open. Remove contact lenses. Take care not to rinse contaminated water into non-affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.

SKIN: Remove contaminated clothing and wash skin thoroughly with plenty of soap and water. If irritation occurs, seek medical attention. 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 victim from exposure to fresh air – avoid becoming a casualty. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Remove prostheses e.g. false teeth. Seek medical advice if effects persist. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage and seek urgent medical aid.

FIRST AID FACILITIES: Normal washroom facilities are generally suitable. Ensure an eye wash station and safety shower is available and ready for use.

ADVICE TO DOCTOR: Treat symptomatically, for advice, contact the Poisons Information Centre 131 126

OTHER INFORMATION: Keep water and mild soap near work site.

MATERIAL SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES

FIRE/EXPLOSION HAZARD

HAZARDS OF USE/STORAGE:	Combustible.
HAZARDS FROM COMBUSTION PRODUCTS:	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of chlorine and nitrogen. Mists may be explosive.
FIRE-FIGHTING RECOMMENDATIONS:	If safe to do, remove containers from path of fire. Keep storage tanks, pipelines, containers, fire exposed surfaces, etc. cool with water spray. Avoid spreading liquid and fire by water flooding.
PRECAUTION:	Water may cause splattering.
SUITABLE EXTINGUISHING MEDIA:	Use water fog, foam, carbon dioxide, BCF or dry chemical.
PROTECTIVE MEASURES:	Fire fighters should wear self-contained breathing apparatus if risk of exposure to products of combustion. Water spray may be used to cool down heat-exposed containers.
REACTIVITY:	May react with strong oxidising agents.

6. ACCIDENTAL RELEASE MEASURES

SPILLS & DISPOSAL:	May be slippery when spilt. Avoid accidents, clean up immediately.
	<p>CLEAN-UP PROCEDURE - SMALL SPILLS (20L or less): Absorb or contain liquid with sand, earth or spill control material. Shovel up using non-sparking tools and place in a sound labelled sealable container for subsequent safe disposal. Place leaking containers in a sound labelled drum.</p> <p>CLEAN-UP PROCEDURES - LARGE SPILLS (Greater than 20L): Transfer to a sound labelled, sealable container for product recovery or safe disposal. Treat residues as for small spills.</p> <p>PERSONAL PRECAUTIONS: Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Evacuate the area of non-essential personnel. Shut off leaks, if possible without personal risk. Do not breathe vapours. Ventilate contaminated area thoroughly. Dispose of according to local regulations.</p>
OTHER INFORMATION:	<p>PROCEDURES IN CASES OF LEAKAGE OR BREAKAGE: Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing outlined in this MSDS. Cover spill with inert absorbent earth. Use a stiff brush to mix thoroughly. Sweep up and place in a sound labelled disposable container. Prevent contamination of groundwater or surface water. If this material enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority</p>

MATERIAL SAFETY DATA SHEET

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Ensure the appropriate personal protective equipment is used when handling this product. When dealing with this product, repeated or prolonged skin exposure without protection should be prevented in order to lessen the possibility of skin disorders. It is essential to maintain high standards of personal hygiene when using this product. That is; always wash hands before eating, drinking smoking or using the toilet.

SAFE STORAGE CONDITIONS: Store in a cool, dry, well ventilated area away from sources of heat or ignition. This product should be stored away from foodstuffs and strong oxidising agents. Keep containers closed at all times - check regularly for leaks.

CORROSIVENESS: Not corrosive.

STORAGE REGULATIONS: Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing.
Keep containers closed when not in use.
Refer to AS 1940 – The Storage and Handling of Flammable Liquids, and
NOHSC: 1015 – National Standard for Storage and Handling of Workplace Dangerous Goods for further information.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS: No exposure standard has been established for this product. NOHSC Exposure Standards:
Oil mists – time weighted average (TWA) 5 mg/m³ is recommended.

OTHER EXPOSURE INFORMATION: Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short term exposure limit (STEL).
No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC).
However, the available exposure limits on the ingredients are given above.

ENGINEERING CONTROLS: Maintain concentration below recommended exposure limit. 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 exposure standard or the Manufacturer's recommended exposure standard.

MATERIAL SAFETY DATA SHEET

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

RESPIRATORY PROTECTION:	A respirator is not normally required. Airborne concentrations should be kept at lowest level possible. If vapours, mists or dusts are generated and the recommended exposure limit for the product is exceeded, use appropriate AS/NZS 1715/1716 approved half –face filter respirator suitable for organic vapours or air supplied respirator is worn. Air supplied respirators should always be worn when the airborne concentration of the contaminant or the oxygen content of the air is unknown
EYE PROTECTION:	Safety glasses, goggles or face shield as appropriate to AS/NZS 1337. Avoid contact lenses.
HAND PROTECTION:	Nitrile, PVC, impervious or other suitable gloves conforming to AS/NZS 2161: Occupational Protective Gloves.
FOOTWEAR:	Industrial safety shoes.
BODY PROTECTION:	Suitable workwear should be worn to protect personal clothing, e.g. cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing
HYGIENE MEASURES:	Always wash hands before eating, drinking, smoking or using the toilet. If contamination occurs, change clothing. Launder contaminated clothing before reuse. Discard internally contaminated gloves.
SPECIAL PROTECTIVE MEASURES:	Combustible material. Isolate from sources of heat, naked flames or sparks.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
APPEARANCE:	Clear brown liquid
COLOUR:	Brown
ODOUR:	Hydrocarbon
MELTING POINT:	Not available
BOILING POINT:	Not available
DENSITY @ 25°C (kg/L):	0.89 – 0.91
FLASHPOINT (ASTM D-93), Closed Cup:	>61°C
FLAMMABILITY LIMITS -LOWER:	Not available
FLAMMABILITY LIMITS -UPPER:	Not available
FLAMMABILITY:	Not available
AUTO IGNITION TEMPERATURE:	Not available

MATERIAL SAFETY DATA SHEET

9. PHYSICAL AND CHEMICAL PROPERTIES (CONT)

SOLUBILITY IN WATER:	Miscible
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY (AIR=1):	Not available
PH VALUE NEAT:	Not applicable
pH VALUE 5% AQUEOUS SOLUTION:	Not applicable
VISCOSITY @ 40 °C (mm ² /s):	Not available
EXPLOSION PROPERTIES:	Combustible.
OTHER INFORMATION:	These physical data and other properties do not constitute a specification.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Avoid extremes of temperature and direct sunlight.
INCOMPATIBLE MATERIALS:	Strong oxidising agents.
HAZARDOUS REACTIONS:	Will react with strong oxidising agents. Thermal decomposition will give off carbon monoxide, carbon dioxide, chlorides and nitrogen oxides, toxic and/or irritating fumes and smoke.
HAZARDOUS POLYMERISATION:	Will not occur.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGY INFORMATION:	Not available
INHALATION:	Inhalation of product vapours will be discomforting and may cause irritation of the nose, throat and respiratory system. Symptoms include coughing, nausea, central nervous system depression, headaches, dizziness, slowing of reflexes, fatigue and inco-ordination.
INGESTION:	Ingestion of this product may cause discomfort and irritate the gastric tract, causing stomach pain, nausea and vomiting.
SKIN:	May cause irritation to the skin. Symptoms may include discomfort. Repeated prolonged skin contact may lead to dermatitis.
EYE:	Will cause great discomfort and may cause irritation to eyes. Symptoms may include temporary redness, tearing, stinging, temporary ulceration and blurred vision.
REPRODUCTIVE TOXICITY:	Reproductive effects not known.

MATERIAL SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION (CONT)

CHRONIC EFFECTS:	Repeated or prolonged skin contact may cause irritation, dryness, defatting of skin and dermatitis. Chronic inhalation situations may result in nervous system impairment and liver and blood damage.
MUTAGENICITY:	Mutagenic effects not known.
CARCINOGENICITY:	Carcinogenic effects not known.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:	No data available for this material.
PERSISTENCE / DEGRADABILITY:	No data available for this material.
MOBILITY:	No data available for this material.
ENVIRONMENT PROTECTION:	Do not allow material to enter drains or watercourses.

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. REGULATORY INFORMATION

POISON SCHEDULE:	S5
PACKING & LABELLING:	No special packaging or labelling requirements.
AUSTRALIAN INVENTORY STATUS:	All components are listed.

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 SHEET

16. OTHER INFORMATION (CONT)

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.

GH103042/1

END OF MSDS