

MATERIAL SAFETY DATA SHEET

BIOKILL

Hazardous according to criteria of WorkSafe Australia

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Welshpool WA 6106

IDENTIFICATION

General

Product Name : **BIO-KILL GOLD**

UN No.: 2922
Dangerous Goods Class: 8
Subsidiary Risk: S6.1(a)
Hazchem Code: 2X
Pack Group: II
EPG: 8CI
Poisons Schedule: N/A

Uses:

Additive to hydrocarbon fuels as a broad spectrum biocide.

Physical Description / Properties

Appearance : Colourless transparent liquid with mild characteristic odour.
Formula : C₅H₁₂O₃, C₆H₁₄O₃
Boiling Point : 200 deg C
Melting Point : NO DATA
Vapour Pressure : 0.1 mm Hg (1 atmosphere)
Specific Gravity : 1.044 (water = 1)
Flash Point : Closed cup 138 deg C
pH : (4.4)
Solubility in water : Sol. g/l (25 deg C)
Flammability Limits (as percentage volume in air)
Lower Explosion Limit : no data
Upper Explosion Limit : no data

Other Properties

Vapour density (air = 1) =0.65 Auto-ignition temperature = no data

Ingredients

Chemical Entity	CAS No.	Proportions (%)
DIPROPYLENE GLYCOL	1110-98-5	> 80
KATHON	26172-55-4, 2682-20-4	< 20

HEALTH HAZARD INFORMATION

Health Effects - Acute

Swallowed

Material is harmful if swallowed. May produce unco-ordination, dizziness, drowsiness, headache, nausea, mental confusion, stupor and death depending on the quantity of material ingested.

Eye

Causes severe irritation, experienced as discomfort or pain, excess blinking and tear production, marked excess redness and swelling of the conjunctiva, and chemical burns of the eye. Can cause permanent irreversible eye injury

Skin

This material is harmful if absorbed through the skin. Material can cause burns, corrosion to the skin and allergic contact dermatitis. Skin irritation effects can be delayed for hours

Inhaled

Vapour from heated material may cause irritation of nose throat and lungs, with headache, nausea, and dizziness.

Health Effects – Chronic

Prolonged or repeated overexposure to mist or vapour generated at high temperatures may result in the inhalation of harmful amounts of material.

First Aid

Swallowed

If patient is fully conscious, give two glasses of water.
IMMEDIATELY obtain medical attention.

Eye

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

Skin

Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention if irritation persists. Wash clothing before re-use.

Inhaled

Remove to fresh air. Obtain medical attention if symptoms persist.

First Aid Facilities

Ensure an eye bath and safety shower are available and ready for use.

Advice to Doctor

MATERIAL IS CORROSIVE. Possible mucosal damage may contraindicate the use of gastric lavage. Exposure should be directed at the control of symptoms and the clinical condition of the patient.

Toxicity Data

Oral LD50 = 457 mg/kg (Rat)

Dermal LD50 = 660 mg/kg (Rabbit)

Inhalation LC50 = 2.6 mg/L for 4 hour (Rat)

Sensitisation data Allergic contact dermatitis observed (Hunan)

High risk of teratogenic effects. Pregnant women should not be exposed to the product.

PRECAUTIONS FOR USE

Exposure Standards

No.	Units	TWA	STEL
1.	mg/m ³	0.1 a	0.3 a
2.	none	none	none

Engineering Controls

Use exhaust ventilation with capture velocity of 0.75 m/sec at point of dust or mist evolution. Refer to AS1668.

Clean up affected areas with appropriate absorbent material.

Personal Protection

Respiratory protection meeting AS1716 and AS1715 must be worn when the exposure standards are exceeded. Above 100 times TWA/TLV or UNKNOWN, wear an Australian Standards approved self-contained breathing apparatus.

Air purifying respirators should be equipped with organic vapour cartridges and dust and mist filters.

Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate gloves and protective clothing to minimise contact with skin.

Always wear an approved respirator when vapour concentrations are high.

Flammability

This material has a relatively low auto-ignition temperature; 200 degrees C. Combustible liquid.

SAFE HANDLING INFORMATION

Storage / Transport

Store in a cool, dry area away from direct heat or flames. Store in tightly sealed containers. Use with adequate ventilation. Use spark-proof tools and explosion-proof equipment. Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat, sparks or open flames.

Packaging / Labeling

UN No.:	2922
Class:	N/A
Sub Risk:	6.1(a)
Hazchem Code:	2X
Pack Group:	II
EPG No.:	8CI
Shipping Name:	BIO-KILL
Hazard:	CORROSIVE, POISONOUS, NOS

Risk Phrases

R36 Irritating to eyes-CORROSIVE.

Safety Phrases

S26, S53-24/25-45

In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately.

Spills and Disposal

Spills

Clean-up personnel should wear full protective clothing including self-contained breathing apparatus in confined spaces. Remove all sources of ignition - NO SMOKING. Prevent contamination of soil and water. Prevent from spreading into drain, ditches or rivers by using sand, earth, or other appropriate barriers.

Disposal

Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility by incineration.

FIRE AND EXPLOSION HAZARD

Fire / Explosion

Avoid OXIDISING agents, REDUCING agents, amines, mercaptans and high temperatures. Burning can produce the following combustion products : hydrogen chloride, sulphur dioxide and oxides of nitrogen.

Hazardous polymerisation will not occur.

Extinguishing Media

Apply alcohol-type or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires. Fire-fighters should wear full protective clothing including self- contained breathing apparatus.

Persistence/degradability : biodegradable. Oxidises by photo- chemical reactions in air.

Bioaccumulation : no data available.

OTHER INFORMATION

Mobility : dissolves in water.

This material is considered stable under specified conditions or storage, shipment and/or use.

Contact Points

Organisation

Telephone 08-9458 8877
Ask For Operations Manager
Geotechnical Services Pty Ltd

Location

41 Furnace road
Welshpool WA 6106

Poisons Information Centre

131126