

MATERIAL SAFETY DATA SHEET

CLADOCIDE

Hazardous according to criteria of Worksafe Australia (Irritant).

GEOTECHNICAL SERVICES PTY LTD
Telephone 08 9458 8877
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41-45 Furnace Road
Welshpool WA 6106

IDENTIFICATION

General

Product Name : **CLADOCIDE GOLD**

UN No.:	N/A
Dangerous Goods Class:	N/A
Subsidiary Risk:	None Allocated
Hazchem Code:	N/A
Pack Group:	0
EPG:	N/A
Poisons Schedule:	N/A

Uses :

Additive to hydrocarbon fuels as a broad spectrum biocide and oxidation stabiliser.

Physical Description / Properties

Appearance : Colourless transparent liquid with mild characteristic odour.

Formula : C₅H₁₂O₃, C₆H₁₄O₃

Boiling Point : 234 deg C

Melting Point : -68 deg C

Vapour Pressure : 0.01 mm Hg (1 atmosphere)

Specific Gravity : 0.953 (water = 1)

Flash Point : Open Cup 91 deg C (combustible liquid)

pH : N/A

Solubility in water : Sol. g/l (25 deg C)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit : 0.9

Upper Explosion Limit : 16

Other Properties

Vapour density (air = 1) = 5.6 Auto-ignition temperature = 215 deg C

Ingredients

Chemical Entity	CAS No.	Proportions (%)
DIETHYLENE GLYCOL MONOMETHYL ETHER		> 60
DIETHYLENE GLYCOL MONOBUTYL ETHER	[112-34-5]	< 30
OTHER/ANTIOXIDANTS	[128-37-0]	< 3

HEALTH HAZARD INFORMATION

Health Effects - Acute

Swallowed

Slightly toxic. May produce signs of intoxication characterised by incoordination, dizziness, drowsiness, headache, nausea, mental confusion, possibly slurred speech, and stupor, 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.

Skin

Brief contact is not irritating. Prolonged contact causes mild to moderate local redness and swelling. Prolonged or widespread contact may result in the absorption of potentially harmful amounts of material.

Inhaled

Vapour from heated material may cause 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. Induce vomiting. 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

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

Toxicity Data

Oral LD50 = 2400 mg/kg (Mouse) ; 2200 mg/kg (Rabbit) ; 5660 mg/kg (Rat)

Dermal LD50 = 2700 mg/kg (Rabbit)

Inhalation LC50 = not available

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

PRECAUTIONS FOR USE

Exposure Standards

No exposure limit has been established for this product.

Engineering Controls

General (mechanical) room ventilation is expected to be satisfactory. Clean up affected areas with liquid-absorbent material.

Personal Protection

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; 228 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. N/A
Class N/A
Sub Risk None Allocated
Hazchem Code N/A
Pack Group 0
EPG No. N/A
Shipping Name CLADOCIDE
Hazard IRRITANT

Risk Phrases

R36 Irritating to eyes.

R61 May cause harm to unborn child.

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

Do not distill to dryness. Avoid excessive temperature or prolonged reflux, such as in batch distillations. Avoid strong alkalis, high temperatures in the presence of strong bases, acids or strong oxidising agents. Burning can produce the following combustion products : carbon monoxide and/or carbon dioxide. 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.

OTHER INFORMATION

At very low concentrations in water, this product is biodegradable in a biological wastewater treatment plant. Mobility : dissolves in water.

Product remaining on soil surface will partly evaporate, but a significant proportion will remain after one day. Persistence/degradability : readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

Bioaccumulation : does not bioaccumulate. Acute toxicity - fish : LC50 : >100 mg/L Acute toxicity - daphnia : EC50 : >100 mg/L Acute toxicity - algae : IC50 : >100 mg/L

Contact Points

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

Location 41 Furnace road
Welshpool WA

Poisons Information Centre 131126