

MATERIAL SAFETY DATA SHEET

Product name:	ECOLOGIC
Version:	OO.102
Effective date:	2010/12/01
Revision date:	2011/05/01

1. PRODUCT AND COMPANY IDENTIFICATION

Supplier: *Maduba Mining Supplies*
PO Box 14228
Leraatsfontein
1038

Emergency Telephone Numbers:

Spillages:

Tel: 013 – 6927163
Fax: 013 – 6925709 / 086 615 4316

Acute Poisonings: 082 926 4677
National Poison Centre: (+27)017 - 6475347 (office hours)
(+27)017-6471707 (after hours)

Trade Name: ECOLOGIC

Use: An organic detergent for industrial use with degreaser properties for all surfaces.

MANUFACTURED BY: ALL-CHEM INDUSTRIES CC - (FORMULE NR A/C 2)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients: Trisodium salts, Ethylene glycol ethers, Polyethylene glycols, Anionic and ionic surfactants, Water.

Chemical Nature: Multipurpose solvent and degreaser.

Chemical Name: Mixture

NIOSH no: Mixture

EINECS no: Mixture

3. HAZARD IDENTIFICATION

Toxicity class: Non toxic chemicals.

Main Hazard: Reactions are not likely to occur unless the absorbed dose is extraordinary.

Fire Hazard: Not flammable.

Biological Hazard: Likely routes of exposure: Skin and eye contact, ingestion and inhalation.

Eye Contact: This product may cause moderate eye irritation.

Skin Contact: Minimally toxic and minimal irritating.

Ingestion: Minimally toxic. May cause abdominal discomfort and nausea.

Inhalation: Mild irritating to the respiratory system. Minimally toxic.

Carcinogenicity: None

Mutagenicity: No available data.

Neurotoxicity: None

Reproductive/Teratogenicity: None

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4. FIRST AID MEASURES

Reactions are not likely to occur unless the absorbed dose is extraordinary.

Inhalation:

Remove source of contamination or move victim to fresh air. Treat symptomatically and obtain medical advice if necessary.

Skin contact:

Gently wipe off excess chemical. Wash skin gently and thoroughly with water.

Eye contact:

Check and remove any contact lenses. Immediately flush eyes with gently flowing lukewarm water or saline for at least 15 minutes. Obtain medical attention if necessary.

Ingestion:

If swallowed do not induce vomiting. Seek medical advice if necessary.

5. FIRE FIGHTING MEASURES

Extinguishing Agents: Non flammable. Extinguish small fires with carbon dioxide, dry powder, water or foam. Use agents appropriate for surrounding fire.

Special Hazards: None.

Protective Clothing: Use as for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None - flush with water

Environmental Precautions: None - dilute with and flush with water. Not characterised as hazardous waste in its purchased form.

Small Spills: Dilute with water and mop up. Flush into sewer.

Large Spills: Dilute with water and flush into sewer.

7. HANDLING AND STORAGE

Handling: No need to wear special protective clothing. Always use with adequate ventilation and avoid inhalation of vapour.

Storage: Keep out of reach of unauthorised people, children and animals. Store in its original labelled container in shaded, cool and well ventilated area. Keep container tightly closed and sealed until ready for use.

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8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational exposure limits: No occupational limits established by OSHA, ACGIH or NIOSH.

Engineering control measurements: Provide adequate ventilation.

Personal protective equipment:

Respirator: Use of respiratory equipment only recommended in non-ventilated enclosed areas.

Clothing: No need to wear special protective clothing.

Gloves: Optionally use PVC or other protective gloves.

Eyes: Use of safety goggles is optionally but is recommended.

Skin: Flush with water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: A colourless liquid.

Odour: Etherise, pleasant, sweet.

Explosive Properties: None

Flammability: Not flammable

Flash Point: Not applicable

pH: 11.5 - 11.9

Bulk Density: 1.018g/cm³ (at 20°)

Solubility in Water: Easily soluble in cold and hot water.

Partition-coefficient in N-octanol /Water: No data available.

Boiling Point: 125°C

Oxidizing Properties: None. Show no evidence of pitting, etching or discolouration.

Vapour Pressure: 0.1 kPA (at 20°C)

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Incompatibility: None - no polymerisation with other products. However, a compatibility test is required before using with other products.

Hazardous decomposition: None.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀: > 2400 mg/kg in rats

Acute Dermal LD₅₀: > 3300 mg/kg in rabbits

Acute Skin Irritation: None. However can develop mild skin irritation with prolonged use.

Acute Eye Irritation: Moderate. Seen as marked redness and swelling of the eye.

Carcinogenicity: Showed no evidence of carcinogenic potential.

Mutagenicity: No available data.

Neurotoxicity: Showed no evidence of neurotoxicity.

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12. ECOLOGICAL INFORMATION

Degradability: Biodegradable.
Fish LC₅₀ (96-hr): Zebra fish (*Danio rerio*) > 100mg/L, thus non-toxic.
Daphnia EC₅₀ (48-hr): Daphnia (*Daphnia pulex*) > 100mg/L, thus non-toxic.
Additional Information: This product contains no organically bound halogen

13. DISPOSAL CONSIDERATIONS

Disposal Method: Dilute with water and flush into sewer.
Disposal of Packaging: Dispose of in accordance with provincial and local government regulations.

14. TRANSPORT INFORMATION

UN number: n/a
ADR/RID
Substance: n/a
Substance ID number: n/a
Hazard ID number: n/a
Class: n/a
Item no: n/a
IMDG/IMO
Packaging group: n/a
Class: n/a
Shipping name: n/a
IATA
Proper shipping name: n/a
Class: n/a
Hazard label: n/a
Packaging group: n/a
Passenger Aircraft: n/a
Cargo Aircraft: n/a

15. REGULATORY INFORMATION

EEC Hazard Classification: Not harmful. No labelling according to EEC directives.
Risk phrases:
R20 Harmful by prolonged inhalation.
Safety phrases:
R26 In case of contact with eyes, rinse immediately with plenty of water and seek advice.
S 2 Keep out of reach of children.

National Legislation:

In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act. No85 of 1993).

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16. OTHER INFORMATION

Prepared by: Nico Scheepers. B.Pharm. M.Sc. (Med). Clinical. MPS.

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct.

END OF MSDS