Material Safety Data Sheet

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

PRODUCT NAME: BIODET FLOOR STRIPPER

Synonyms: None

Recommended Use: Floor Stripper

Supplier: Minehan Agencies Pty Ltd

Address: 29 Camuglia Street GARBUTT Townsville Queensland Australia 4814

Telephone: (07) 4774 4626

Facsimile: (07) 4774 4616

E-mail: inquiry@minehanagencies.com.au

Emergency telephone number: 0408 777 800 (24Hrs Australia)

2. HAZARDS IDENTIFICATION

This product is classified as:

Hazardous according to criteria of the National Occupational Health and Safety Commission (NOHSC).

Not Dangerous Goods according to the Australian Dangerous Goods Code (ADG Code).

Approved Criteria Classification (Calculated).	**HAZARDOUS: IRRITIANT Xi R36/37/38 S36/37/39**
SUSDP Classification	**Not Scheduled**
ADG Classification	**Not Classified**
Un Number	**None allocated**

EMERGENCY OVERVIEW

COLOUR	Straw
PHYSICAL DESCRIPTION	LIQUID
ODOUR	Amine
MAJOR HEALTH HAZARD	Irritating to eyes, skin and respiratory system.

POTENTIAL HEALTH EFFECTS

Inhalation: Short term exposure. Generated mists and sprays may irritate respiratory system. **Long term Exposure**. Mists and sprays may trigger pre-existing respiratory complaints.

Skin Contact: Short term exposure. Concentrate may cause dryness and irritation. **Long term exposure**. Prolonged exposure to the concentrate may cause irritation, redness and dermatitis. Dilute solutions are non-irritating.

Eye Contact: Short term exposure. Concentrate may cause strong irritation. **Long-term exposure**. Prolonged contact may cause redness and itching.

Ingestion: **Short term exposure**. Headaches, nausea, and abdominal irritation may result. **Long-term exposure**. May produce diarrhoea and occasional vomiting.

Carcinogen Status

NOHSC	Not Classified
NTP	Not Classified
IARC	Not Classified

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No	PROPORTION W/W %
Ethyleneglycol monobutyl ether	111-76-2	15-30%
Monoethanolamine	141-43-5	15-30%
Sodium xylene sulphonate	1300-72-7	1-5%
EDTA-tetrasodium salt	64-02-8	1-5%
Alcohol ethoxylate (C10)	-----	1-5%
Fluorotelomer	65545-80-4	<1%
Other ingredients determined not to be hazardous		to 100%

4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for Scheduled Poisons: Phone (Australia 13 1126).

Inhalation: Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. If symptoms persist seek medical attention.

Skin Contact: Remove contaminated clothing. Wash contaminated skin for at least 15-20mins with of water, or until no evidence of the chemical remains. If swelling, redness, blistering, or irritation occurs seek medical advice. Wash clothing before re-use

Eye Contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. If present, remove contact lenses. If symptoms persist seek medical attention.

Ingestion: Immediately rinse mouth with water. Do NOT induce vomiting. If symptoms persist seek medical attention.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point: Not a Flammable or Combustible liquid.

Fire and Explosion Hazard: Non-combustible material. Closed containers exposed to heat may explode.

Specific Hazards: None.

Fire Fighting: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. **Suitable Extinguishing Media:** Not combustible, however, if material is involved in a major fire use water fog to keep drums cool. Use foam, CO_2 or dry chemical powder to extinguish surrounding fire.

Hazardous Decomposition in Products: On burning may emit fumes including carbon monoxide, carbon dioxide, and partially burned hydrocarbons. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

Hazchem Code: None allocated.

6. ACCIDENTAL RELEASE MEASURES

Stop leak if possible without personal risk. **Small spills (< 5L)** Cover with an absorbent material (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal. Hose down area with large amounts of water. Caution, Slip Hazard. **Large spills (>5L)** Prevent run off into drains and waterways. Dam material. Cover with absorbent material. Collect and seal in properly labelled containers for disposal. Hose down area with large amounts of water. Caution Slip hazard. Keep unnecessary people away, isolate hazard area and deny entry. If contamination of sewers or waterways has occurred, advise local emergency services.

7. HANDLING AND STORAGE

Store in a well-ventilated area. Store in a cool, dry place and out of direct sunlight. Store away from foodstuffs and strong acids. Store in original containers. Keep containers closed when not in use – check regularly for leaks. Handle using good industrial hygiene practices (see section 8 on personal protection).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: No value has been assigned for this specific material by NOHSC. However exposure limits for ingredients are shown below

Ingredient	TWA	STEL	Notices
Ethyleneglycol monobutyl ether	20ppm	50ppm	Sk
Monoethanolamine	3ppm	6ppm	

TWA – the Time-Weighted Average airborne concentrations over an eight hour working day, for a five day week over an entire working life.

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Sk Notice – absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Sen Notice-Sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to minute levels of that substance.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Biological Limit Value: No biological limit allocated.

Engineering Controls: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards and prevent exposure to vapours, mists and fumes. Use in well ventilated area. Keep containers closed when not in use.

Personal Protection Equipment
Respirator: Not required.

Eye Protection: When handling the concentrate Safety glasses with side shields should be worn as described in Australian Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

Glove Type: Impervious PVC or rubber gloves should be worn when handling the concentrate.

Clothing: Not specific requirements.

Work/Hygienic Practices: Always wash hands before smoking, eating, drinking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid		Water Solubility	Soluble
Colour	Clear Straw		Vapour Pressure	Not Known
Odour	Amine		Vapour Density	Above 1 (air =1)
Boiling Point	>100 ^{o}C		Evaporation Rate	Slower than butyl acetate
Melting Point	NA		% Volatiles	80%
Freezing Point	Not Known		Flash Point	Not Flammable
Specific Gravity	0.95g/ml (water =1)		Flammability Limits	NA
Ph (neat)	11-12		Ignition Temperature	NA

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Conditions to Avoid: Avoid contact with incompatible materials.

Incompatibilities: Strong Oxidising Agents, Strong Acids,
Explosive reactions may occur with strong oxidising agents.
Violent heat producing reactions may occur with strong acids.

Hazardous Decomposition: Thermal decomposition products include, sulphur dioxide, carbon dioxide, carbon monoxide, and Nitrous oxides.

Polymerisation: Will not polymerise.

11. TOXICOLOGICAL INFORMATION

Biodet Floor Stripper

Local Effects: Irritating by inhalation, skin contact and to eyes.
Target Organs: Contact effects only, no "substance specific" systemic effects

Classification of Hazardous Ingredients

Ingredients	R Phrases
Ethyleneglycol monobutyl ether	R20/21/22 R36/38
Monoethanolamine	R20 R36/37/38
Sodium xylene sulphonate	R36

Individual Ingredient Information

Ethylene glycol monobutyl ether

Irritation Data: 500mg open skin-rabbit mild; 100mg eyes-rabbit severe; 100mg/24hr eyes-rabbit moderate.

Toxicity Data: The lethal oral dose of ethylene glycols in humans is approximately 1.4ml/kg, which would be equivalent to approximately 100ml of pure Ethyleneglycol monobutyl ether for a 70kg person. LD50 rat oral 1.48 g/kg. LD50 rabbit oral 0.32g/kg. LD50 rabbit dermal 400mg/Kg

Local Effects: Irritant: inhalation, skin, eyes.
Acute Toxicity Level: Toxic: inhalation, dermal absorption, ingestion.
Target Organs: Blood, Central Nervous System, Kidneys.
Mutagenic Data: A statically significant increase in mutations not generally observed in cell cultures at any concentration for a range of tests.

Reproduction Effects Data: May damage the developing foetus.
TCLo: ihl-rat 200ppm/6H (6-15D preg)
TCLo: ihl-rbt 200ppm/6H (6-18D preg)

Monoethanolamine

Irritation Data: eye, rabbit, 250ug, severe. Skin, rabbit, 505mg, moderate

Toxicity Data: Lowest published toxic concentration, Cat, inhalation 0.1gm/m^3, irritation

Local Effects: Irritation

Acute Toxicity Level: LD50, oral, rabbit, 1gm/Kg. Inhalation, mouse, lethal concentration, >2,420mg/m^3/2hours

Target Organs: Contact effects

Mutagenic Data: Human lymphocyte, 1mmol/L , sister chromatid exchange

Reproduction Effects Data: Oral, rat, 500mg/kg (6-15 day pregnant), stunted embryo growth

Sodium Xylene Sulphonate

Irritation Data: Irritating to human eyes.

Toxicity Data: Lowest published toxic dose: mouse 20800mg/kg/17day, changes to liver weight.

Local Effects: Eye irritation.

Acute Toxicity Level: No LD50 test data available.

Target Organs: Eyes.

Mutagenic Data: No test data available.

Reproduction Effects Data: No test data available.

12. ECOLOGICAL INFORMATION

General Statement: Do not release large quantities (>20L) of this material into the water table. It is ecpected to have an adverse effect on the marine environment.

Ecotoxicity: No specific information available for this product however it is expected that this product will have an adverse effect on marine life.

Persistence and Degradability: Will not persist in the environment. All ingredients biodegradable.

Mobility: Water-soluble. Some transport to air.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority for disposal; show this MSDS for their consideration. Empty containers may be recycled after through cleaning with water. Dispose in accordance with local regulations.

14. TRANSPORTATION INFORMATION

UN No	None allocated
Proper Shipping Name	None allocated
ADG Code	None allocated
Sub Risk	None allocated
Packing Group	None allocated
Special Precautions	None
Hazchem Code	None allocated
EPG	None allocated
Segregations	No

15. REGULATORY INFORMATION

SUSDP Classification: Not Scheduled.

AICS: All of the constituents of this material are listed on the ACIS.

16. OTHER INFORMATION

Issue Date: March 2014
Reason(s) For Issue: Initial Issue

Labelling Details
Label must read: Irritant Xi
Other statements to include

R36/37/38	Irritating to eyes, skin and respiratory system.
S2	Keep out of reach of children.
S26	In case of contact with eye/s, do NOT rub eyes as this may scratch the cornea, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear Suitable protective clothing, gloves and eye/face protection
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label wherever possible).

Abbreviations & Acronyms

SUSPD: Standard for the Uniform Scheduling of Drugs and Poisons
ADG: Australian Code for the Transport of Dangerous Goods by Road and rail
N.O.S.: Not Otherwise Specified
CAS No: Chemical Abstracts Service Registry Number
UN No: United Nations Number
R-Phrases: Risk Phrases
S-Phrases: Safety Phrases
HAZCHEM Code: Hazardous Chemical emergency action code
NOHSC: National Occupational Health and Safety Commission
IARC: International Agency for Research into Cancer
ACIS: Australian Inventory of Chemical Substances
NTP: National Toxicology Program (USA)

Literary references:
Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(41999)]
National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011(2003)]
Exposure Standards for Atmospheric Contaminants in the Occupational Environment
Guidance Note [NOHSC: 3008(1995)] National Exposure Standards [NOHSC: 10005(1999)]
List of Designated Hazardous Substances [NOHSC: 10005(1999)]
Standard for the Uniform Scheduling of Drugs and Poison No. 17
The Australian Code for the Transport of Dangerous Goods by Road and Rail EDITION 6

Disclaimer
This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product and in particular how to safely handle and use the product in the workplace.
Since Minehan Agencies Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace i.e. a risk analysis.
If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Minehan Agencies Pty Ltd.