

MATERIAL SAFETY DATA SHEET



In compliance with Regulation (EC) No. 1907/2006 (REACH) as amended by Regulation (EU) No. 453/2010

M101 – Grease Trap Reviver Conc

Date: 2013-11-01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: M101 – Grease Trap Reviver Conc

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Liquid formulation of non-pathogenic, specialized micro-organisms strains and biodegradable cleaners used for seeding of large grease traps. Professional uses.

1.3 Details of the supplier of the safety data sheet: Pineland Environmental Technology, Unit B41, Pinelands Business Park, New Mill Road, Pinelands.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the classification rules laid down in Directive 1999/45/EC:

The preparation is classified as:

Xi (Irritant)

R36 Irritating to eyes.

R43 May cause sensitisation by skin contact.

2.2 Label elements:

Symbol(s):



Indication(s) of danger: None.

Risk phrase(s):

R36 Irritating to eyes.

R43 May cause sensitisation by skin contact.

Safety advice:

Tel: +27 82 924 5791 Fax: +27 (0)21 531 3903

email: jamekfalconer@gmail.com web site: www.pineland.co.za CK: 1991/003667/07 Directors: C Davidson

S24/25 Avoid contact with skin and eyes.

S37 Wear suitable protective gloves.

Other applicable labels elements:

None

2.3 Other hazards:

None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance identifier	Conc. %	Symbols	R phrase	CAS No.	EC No.
Sodium dodecyl benzene sulfonate	5-20	Xn	R22 R37/38 R 41	25155-30-0	246-680-4
Polyethoxylated alcohol	1-5	Xi	R36	78330-21-9	N/A
1,2-Benzothiazolin-3(2H)-one	< 0.5	Xn	R22, R38, R41, R43, R50	2634-33-5	220-120-9

Other ingredients are either non-hazardous or are present at levels < thresholds set in Directive 1999/45/EC.

3.2 Classification of the ingredients according to Regulation (EC) No. 1272/2008:

Substance identifier	Conc. %	Hazard class and category code(s)	Pictogram, signal word code(s)	Hazards statement code	Specific conc. limits, M-factors	CAS No.	EC No.
1,2-Benzothiazolin-3(2H)-one	< 0.5	Acute tox. 4 Skin corr. Irrit. 2 Eyes Irrit. 1 Skin Sens. 1 Aquatic acute tox 1	GHS05 GHS08 GHS09 Danger	H302 H315 H318 H317 H400	Skin Sens. 1 >0,05	2634-33-5	220-120-9

No harmonized classification and labeling information according to this regulation for the other substances or no information communicated by the suppliers.

4. FIRST-AID MEASURES

4.1 Description of first aid measures:

Exposure by inhalation: Remove victim to fresh air. Rest and keep warm. If symptoms of irritation and/or sensitisation occur (shortness of breath, wheezing or laboured coughing) seek medical attention.

Exposure by skin: Immediately wash affected area thoroughly with soap and water. Seek medical attention if irritation develops.

Exposure by eye contact: Immediately flush eyes with plenty of water and seek medical advice.

Exposure by ingestion: Do not induce vomiting. Drink water to dilute. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed:

Irritating to eyes. May cause sensitisation by skin contact.

Organisms used are non-pathogenic but can cause infection when in contact with open wounds.

4.3 Indication of any immediate medical attention and special treatment needed:

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Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media: All types of extinguishers may be used: water, foam.

5.2 Special hazards arising from substance or mixture: If the substance is involved in a fire, oxides of carbon and nitrogen may be evolved.

5.3 Advice for firefighters: Self-contained breathing apparatus should be worn.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Use protective equipment. Avoid formation of dust, splashing and formation of aerosols.

6.2 Environmental precautions: None.

6.3 Methods and material for containment and cleaning-up: Clean-up by collection. Dispose of waste material in accordance with local or national regulations.

6.4 Reference to other sections: For personal protective equipment, refer to section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Precautions: The substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure. The product is formulated using a range of microorganisms specially selected from the natural environment and that are known to be non-pathogenic to humans, animals or plants. It is advised to cover open wounds when in use.

Technical measures: The use of gloves is recommended to reduce exposure to the preparation.

Specific requirements: None.

7.2 Conditions for safe storage, including any incompatibilities:

Specific design for storage rooms or vessels: None.

Incompatible materials: Strong acids or alkali compounds may inactivate biological cultures. Avoid strong oxidising agents. Do not store in metallic containers.

Conditions of storage: Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Avoid freezing temperatures. Avoid temperatures above 45 °C to preserve biological stability.

Quantity limits: None.

7.3 Specific end use(s):

No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

None

8.2 Exposure control:

8.2.1 Appropriate engineering controls: None.

8.2.2 Individual protection measures, such as personal protective equipment: The user as part of a formal exposure risk assessment should decide upon the provision of personal protective equipment and the need to provide engineering control

measures. Based upon the available toxicological information the protective measures described below should be regarded as a minimum.

Eye/face protection: Safety glasses, to prevent eye exposure, are recommended to be used when handling the product. The protection should be capable of giving chemical protection as classified in BS2092 or EN166.

Skin protection: Avoid contact with broken skin. In case of prolonged/frequent direct handling of the material it is recommended to wear chemical protective clothing compliant with NF EN ISO 13034 (type 6).

Respiratory protection: No special ventilation is usually necessary.

Hand protection: Avoid prolonged or frequent repeated skin contact, especially with broken skin. Chemical protective gloves to a standard EN374 should be provided. Usage periods should not exceed the breakthrough times for the chemical stated by the manufacturer of the glove.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	liquid, creamy colour.
Odour:	mild soapy.
pH:	7 – 9
Boiling point/boiling range:	Not determined
Melting point/melting range:	Not applicable.
Flash point:	Not determined.
Flammability (solid, gas):	Not applicable.
Autoflammability:	Not determined.
Explosive properties:	Predicted not explosive based on chemical structure.
Oxidising properties:	Not determined.
Vapour pressure:	Not determined.
Relative density:	Not determined.
Solubility –	Water solubility: Soluble Fat solubility: Not determined.
Partition coefficient n-octanol/water:	Not determined.

9.2 Other information: None available.

10. STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive.

10.2 Chemical stability: Stable.

10.3 Possibility of hazardous reactions: If the substance is involved in a fire, oxides of carbon and nitrogen may be evolved.

10.4 Conditions to avoid: Excessive temperature variations, below 0 °C or above 45 °C.

10.5 Incompatible materials: Strong acids, alkali compounds and strong oxidising agents may inactivate biological cultures.

10.6 Hazardous decomposition products: None anticipated.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

11.1.1 Acute toxicity: Ingestion, LD50 Rat oral (mg/kg): Not determined.

Inhalation, LC50 Rat inhalation (mg/l/4 hr): Not determined.

Skin, LD50 Rat dermal (mg/kg): Not determined.

11.1.2 Irritation: Eye irritation: Irritant.

Skin irritation: Not determined.

11.1.3 Sensitisation: May cause sensitisation by skin contact.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: The preparation is not anticipated to pose any environmental hazard. No data on toxicity specifically to soil organisms, plants and terrestrial animals are available.

12.2 Persistence and degradability: The preparation is expected to biodegrade rapidly. However, no information on anaerobic biodegradation is available.

12.3 Bio accumulative potential: Not anticipated to bio accumulate.

12.4 Mobility in soil: No information available

12.5 Other adverse effects: There is no ozone depletion, photochemical ozone creation or global warming potential. Adverse effects in the sewage treatment plant are not anticipated.

12.6 Other information: None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Dispose of by incineration or landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 UN number: None.

14.2 UN proper shipping name: None.

14.3 Transport hazard class(es): Not applicable.

14.4 Packing group: Not applicable.

14.5 Environmental hazards: None.

14.6 Special precautions for user: None.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Microbial classification:

All the bacteria contained in this formulation are of group 1 according to Directive 2000/54/EC (on the protection of workers from risks related to exposure to biological agents at work). Microorganisms from group 1 are unlikely to cause a human disease.

When handling the product, precautions described in Annex VI of Directive 2000/54/EC have to be taken into consideration in order to make a risk assessment.

15.2 Chemical safety assessment:

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No chemical safety assessment has been carried out yet for this mixture.

16. OTHER INFORMATION

R phrases (according to Directive 67/548/EEC):

R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause a sensitisation by skin contact.
R50	Very toxic to aquatic organisms.

Hazards statement according to Regulation (EC) No. 1272/2008:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

Pictogram code according to Regulation (EC) No. 1272/2008:

GHS05	Corrosion
GHS08	Health hazard
GHS09	Environment

Sources:

Detailed composition.

SDS of ingredients.

ESIS website: <http://esis.jrc.ec.europa.eu/>

GESTIS-Substance Database: <http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp#>

Safety/classification: http://www.dsmz.de/microorganisms/bacterial_nomenclature.php

<http://www.biosafety.be/GB/WPPProcGB.html>

Occupational exposure: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:338:0087:0089:EN:PDF>

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:038:0036:0039:EN:PDF>

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:2000L0039:20060301:EN:PDF>

http://bgia-online.hvbg.de/LIMITVALUE/WebForm_gw.aspx

Miscellaneous:

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This preparation is a concentrate intended to be put in suspension in water. Once in suspension, according to the manufacturer's instructions, the hazard label stated will no longer apply at the point of use.

Version 4 - Revised points: 1-16 (2012-10-23).

The above information is based on the present state of our knowledge at the time of publication. It is given in good faith, no warranty is implied with respect to quality or specification of product. The user must satisfy himself that the product is entirely suitable.