

MATERIAL SAFETY DATA SHEET
(COMPLIES WITH C.O.S.H.H. REGULATIONS)

Date of Preparation 15/01/9

1. PRODUCT INFORMATION

1.1 Product Identifier: Bio- Degreaser
1.2 Description: Aqueous Concentrate of facultative micro-organisms formulated
1.3 Supplier: Bio-Industries Ltd Unit 66D heather road Dublin 18 Ireland
1.4 Emergency Tel: +353 1 2941025
1.5 Application: Treatment of Grease Traps/sewer lines

2. HAZARD IDENTIFICATION

2.1 Non Hazardous : (tested for E,Coli & Salmonella)

3. COMPOSITION & INFORMATION ON INGREDIENTS

3.1 INGREDIENTS: Proprietary mixture of Selected Group 1 Natural micro-organisms in Buffered Solution Bacterial strains , Bacillus licheniformis, Bacillus megaterium, Bacillus subtilis , Bacillus polymixa, Bacillus pumilus, Arthrobacter, Pseudomonas Stutzeri ,Pseudomonas Putidi . Surfactant non-ionic , stabiliser, dye and scent.
3.2 CAS : Not available.
3.3 LD₅₀: No data Available

4. FIRST AID MEASURES

4.1 Eye: Flush with water for at least 10 minutes. Call a physician if irritation develops.
4.2 Skin: Wash with water. Call a physician if irritation develops.
4.3 Ingestion: Seek immediate medical attention
4.4 Inhalation: N/A
4.5 Other first aid information: None known

5. FIRE AND EXPLOSION DATA

5.1 Flammability: Non-Flammable
5.2 Flash Point: N/A
5.3 Upper Explosion Limit: N/A

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Avoid eye contact
6.2 Precautions to protect the environment: none established
6.3 Cleanup procedures: Flush with clean fresh water

7. HANDLING AND STORAGE

7.1 Storage : Store in cool dark place. Temp is not to exceed 20°C. Do not freeze.
7.2 Packaging materials: HD-PE white or coloured.
7.3 Incompatibilities: None known
7.4 Other information : Product shelf life 12 months or greater if stored under conditions (7.1)

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Exposure controls: Refer to section 3

8.2 Exposure controls for hazardous components

Name: Bio-Degreaser Kit Cas NO: NOT KNOWN

8.3 Personal protective equipment

Respiratory: respiratory protection is not normally required.

Hand: Wear gloves (to protect product)

Eye: safety glasses

Skin: Protective equipment is not normally necessary.

Industrial Hygiene: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

9. PHYSICAL DATA

9.1 Appearance

Physical State: Liquid Suspension

Colour: Green

Odour: Lemon

Clarity: Opaque

Melting point/melting range: NA

Flashpoint: NA

Flammability (solid, gas) : Not determined

Autoflammability : Not determined

Explosive Properties: Not determined

Oxidising properties: Not determined

Vapour pressure: Not determined

Solubility in Water: Miscible

Solubility in fat: Not determined

Oil/water partition coefficient: Not determined

Vapour density (air=1): Not determined

evaporation rate (ethyl ether= 1): Not determined

% Volatile: Not determined

Molecular Weight: Not determined

9.2 Safety Related Information

Specific Gravity: 1.0

pH: 6.0-8.0

Percent Volatile: N/A

Viscosity: Slightly thicker than water

Solubility in Water : Miscible

Boiling Point (deg C): NA Temp 30-37°C

10. REACTIVITY

10.1 Conditions of Chemical Instability: None Known

10.2 Incompatible Materials: Strong oxidising agents /chlorine /bleach (will destroy bacteria)

10.3 Conditions for Reactivity: None Known

10.4 Hazardous Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

Possible Health Effects

Skin: (3) Wash with water and consult a physician if irritation develops

Eyes: (3) Flush with water

Inhalation: (3) No significant effect. See other health hazard information

Ingestion: (3) Seek immediate medical attention.

LC50: NOT DETERMINED

LD50: NOT DETERMINED

(1) Based on product test data.

(2) Based on assessments from related products.

(3) This information is based either on test data, extrapolation from tests on similar materials, review of component data, or a combination of these sources.

12. ECOLOGICAL IMPACT

12.1 Elimination(3)

Persistence: Not known

Degradability: material is bio-degradable 99.89% in 48 hrs

Bioaccumulation: N/A

12.2 Behaviour in the aquatic compartment (3)

Mobility: NA

12.3 Ecotoxicity(3)

Aquatic: ecotoxic effects not known

Terrestrial: Not known

(1) Based on product test data

(2) Based on assessments from related products
(3) This information is based either on test data, extrapolation from tests on similar materials, review

of component data, or a combination of their sources.

13. WASTE DISPOSAL

13.1 Product Disposal : dispose to domestic sewer.

13.2 Packaging disposal: Packaging should be disposed of in accordance with regional and/or national regulations.

14. TRANSPORT INFORMATION

UNNO: NA
SYMBOLS: NA

14.1 Road & Rail transport (ADR/RID)

No special packaging or labelling requirements

14.2 Sea Transport (IMO)

No special packaging or labelling requirements

14.3 Air Transport (ICAO)

No special packaging or labelling requirements.

15. REGULATORY INFORMATION

15.1 EEC supply classification & labelling: (1)

Contains: NA
No special packaging or labelling requirements.

German Vbf: AIII

Ozone depleting chemicals: No ozone depleting chemicals are present or used in manufacture.

15.2 National legislation:

For product information in other EC languages, including appropriate national legislation, please contact the sales office at the above address.

EINECS: All ingredients listed or exempt

TSCA: All ingredients listed or exempt

MITI: Not determined

DSL: All ingredients listed or exempt

AICS: All ingredients listed or exempt

15.3 Other regulations:

German waste number: Not determined.
German water class: not determined

(1) According to 93/18/EEC as adapted for the 3rd time to technical progress commission directive 88/379/EEC.

16. OTHER INFORMATION

This product safety data sheet was prepared in compliance with commission Directive 93/112/EC, 67/548/EEC and 88/389/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of the product safety data sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose of or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Bio-Degreaser XR, it is the recipient's sole responsibility to ensure the transfer of all relevant information from Product safety data sheet to their own Product safety data sheet in compliance with Commission Directive 88/379/EEC.

All information and instruction provide in this safety data sheet (SDS) are based on the current state scientific and technical knowledge at the date indicated on the present SDS. Bio-Industries shall not be held responsible for any defect in the product covered by this SDS should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.
