Ecosave Systems Limited

Bioball - MATERIAL SAFETY DATA SHEET

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

1.1 Identification of the Substance or Preparation

Ecosave Biological Block

1.2 Intended use of the Substance / Preparation

Biological detergent block for urinals & troughs

1.3 Company / Undertaking Identification

Ecosave Systems Limited
Units 7 & 8
Rodgers Industrial Estate
Yalberton Road
Paignton
South Devon
TQ4 7PJ

1.4 Emergency Telephone Number

(01803) 521415

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s):	CAS NO:	%w/w:	R Phrases:
Sodium Chloride (harmless)	7647-14-5	40 -55%	
Sodium dodecylbenzene sulphonate	25155-30-0	30-50%	R22,R36/37/38
Anti - lime scale	5329-14-6	4-5%	R36/38,R52/53

Perfume <8%

Class 1 bacteria included at .5 bn spores / g of block material.

The perfume contains the following chemicals; limonene which may cause an allergic reaction.

3. HAZARDS IDENTIFICATION

3.1 Health Hazard (inhalation, ingestion, contact with skin or eyes)

Most Important Hazards

The preparation is not classified as dangerous according to the criteria laid down in:
EU Council Directive 1999/45/EEC.

Most Important Adverse Human Health Effects

None identified

3.2 Environmental Hazard

Please see section 12

4. FIRST-AID MEASURES

4.1 Exposure by Inhalation

Remove victim to fresh air. Rest and keep warm. Seek medical attention if required.

4.2 Exposure by skin

Immediately wash affected area thoroughly with soap and water. Seek medical attention if irritation develops. Organisms used are non pathogenic but can cause infection when in contact with open wounds.

4.3 Exposure by eyes contact

Immediately flush eyes with plenty of water and seek medical attention if irritation develops.

4.4 Exposure by Ingestion

Do not induce vomiting. Drink water to dilute. Seek medical attention.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Media

All types of extinguishers may be used.

5.2 Extinguishing Media not to be used

None

5.3 Specific Exposure Hazards

If the substance is involved in a fire, oxides of carbon and nitrogen may be evolved.

5.4 Protective Equipment for Firefighters

Self-contained breathing apparatus should be worn.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Use protective equipment.

6.2 Environmental Precautions

Avoid excessive release to environment. The product is designed to digest complex fat matters, grease, oil, cellulose and starch through enzymatic metabolism in the drainage system.

6.3 Methods for Cleaning Up

Clean up by collection.

7. HANDLING AND STORAGE

7.1 Handling

7.1.1 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.

7.1.2 Technical Measures

The use of gloves will reduce exposure to the preparation.

7.1.3 Specific Requirements

None

7.2 Storage

7.2.1 Specific design for storage rooms or vessels

None

7.2.2 Incompatible Materials

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

7.2.3 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

7.2.4 Quantity Limits

None

7.2.5 Packaging Materials

Packaging can be recycled

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 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.

8.2 Respiratory Protection

No special ventilation is usually necessary. However if operating conditions create high airborne concentrations of this material, based upon available information and in the absence of occupational exposure limits the use of a vapour mask to a minimum standard of EN405 FFA1 is recommended.

8.3 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.

8.4 Eye Protection

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

8.5 Skin Protection

Avoid contact with broken skin. However prolonged / frequent direct handling of the material should be minimised by wearing chemical protective clothing suitable for protection against the chemical as classified by Standard EN368.

8.6 Engineering Measures

None

8.7 Specific Control Parameters

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:		Coloured waxy solid
Appearance:		Dark Blue
Odour:		Mint aroma
pH:		Approximately 8 (1% solution at 20 degrees centigrade)
Boiling Point/Boiling Range:		Not applicable
Melting Point/Melting Range:		Not applicable
Flash Point:		Not determined
Flammability (Solid, Gas):		Not applicable
Auto flammability:		Not determined
Explosive Properties:		Predicted not explosive based on chemical structure.
Oxidising Properties:		Not determined
Solubility	**- Water solubility:**	100% (aqueous product)
	- Fat solubility:	Not determined
Partition coefficient water:		Not determined
Other Data:		None available

10. STABILITY AND REACTIVITY

10.1 Conditions to Avoid

Excessive temperature variations, below 0°C or above 45°C

10.2 Materials to Avoid

Strong acids or alkali compounds may inactivate biological cultures and strong oxidising agents

10.3 Hazardous Decomposition Products

None anticipated

11. TOXICOLOGICAL INFORMATION

The product is an irritant to eyes and skin. Inhalation of a finely divide material may irritate the mucous membrane.

11.1 Acute toxic effects

11.1.1	**Ingestion, LD50 Rat oral (mg/kg)**	acute oral toxicity 2150 mg/kg
11.1.2	**Inhalation, LC50 Rat inhalation (mg/l/4h)**	Not determined
11.1.3	**Skin, LD50 Rat dermal (mg/kg)**	Not determined
11.1.4	**Eye irritation**	Not determined

11.2 Chronic toxic effects

11.2.1 Sensitisation Not determined

The product is formulated using a range of micro-organisms 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.

12. ECOLOGICAL INFORMATION

12.1 Mobility

This preparation has high water solubility. Therefore it is likely to distribute predominantly to the aqueous environment.

12.2 Biodegradability

The preparation is expected to biodegrade rapidly. However no information on anaerobic biodegradation is available. Sodium dodecylbenzene sulphonate is completely biodegradable and will be degraded in a few days.

12.3 Accumulation

Not anticipated to bio-accumulate due to high water solubility and hence, bio-magnification is not likely.

12.4 Eco toxicity

The preparation is not anticipated to pose any environmental threat.

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

Class 1 micro-organisms (European Federation of Biotechnology) selected from the natural environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste from Residues

Dispose of by incineration, landfill or to drain in accordance with local regulations.
Stack gases should be scrubbed.

13.2 Contaminated Packaging

Dispose of by incineration or landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

No special requirements

International Regulations Land:	Not applicable.
Inland waterways:	Not applicable.
Sea:	Not applicable.
Air:	Not applicable.
UN classification number:	None
Local Regulations:	Any relevant local regulations concerning transport should be observed.

15. REGULATORY INFORMATION

15.1 EC Regulations

The preparation is classified as "irritant" and therefore the following labels according to the requirements of Annex VI of Council Directive 67/548/EEC and in accordance with Directive 1999/45/EC are necessary

Prepared in accordance with COSHH Regulations 2002 and CHIP 3 Regulations 2002

15.2 R-phrases

R36/37/38;R22

15.3 S-phrases

S02 - Keep out of reach of children
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of water.
S46 - If swallowed seek medical advice immediately and show this container / lid.

Contains Carvone and Limonene which may produce an allergic reaction.

15.4 Local Regulations

Any relevant local regulations should be observed.

This product complies with legislation concerning the biodegradability of surfactants.

16. OTHER INFORMATION

Use in accordance with directions.

The information in this document 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.