

MATERIAL SAFETY DATA SHEET

Commercial Product name: BIO BLOCKS

1. Identification

1.1 Product Name Bio Blocks
1.2 Use Biological breakdown of fats, oils and greases
1.3 Manufacturer Bio-Systems Europe
 Enigma Business Park
 Spring Lane North
 Malvern Link
 Worcs WR14 1BU Tel: 01684 577171
 Fax: 01684 892251
 Email: sales@biosystemseurope.co.uk
1.4 Emergency No. 07971 967 934
 07792 741 714
 07976 073 260
 07791 471 818

2. Hazard Identification

Classification of the substance or mixture

Classification under CHIP: C: R35

Classification under CLP: Skin Corr. 1A: H314

Most important adverse effects: Causes severe burns.

Label Elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. Composition

Hazardous ingredients:

Sodium Dodecylbenzene Sulfonate

EINECS	CAS	CHIP Classification	CLP Classification	Percent
246 680 4	25155 30 0	C: R35	Skin Corr. 1A: H314	20-50%

4. First Aid Measure

Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

Most important symptoms and effects, both acute and delayed

- Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
- Eye contact:** Corneal burns may occur. May cause permanent damaged.
- Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed/Immediate Effects: Immediate effects can be expected after short-term exposure.

Indication of any immediate medical attention and special treatment needed

Immediate/special treatment: Eye bathing equipment should be available on the premises.

5. Fire Fighting Measures

Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. Handling and Storage

Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of mists in the air

Condition for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Specific end use(s)

Specific end use(s): No data available

8. Exposure Controls/Personal Protection

Control parameters

Hazardous ingredients:

Sodium Dodecylbenzene Sulfonate

Workplace exposure limits

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m3	-	-

DNEL/PNEC Values

DNEL/PNEC values: No data available

Exposure Controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing

9. Physical and Chemical Properties

Information on basic physical and chemical properties

State: Solid
Colour: Various
Odour: Unfragranced or fragranced
Solubility in water: Soluble
Viscosity: N/A
pH: >8

Other Information

Other Information: No Data available

10. Stability and Reactivity

Reactivity

Reactivity: Stable under recommended transport or storage conditions.

Chemical Stability

Chemical Stability: Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid

Conditions to avoid: Heat

Incompatible materials

Materials to avoid: Strong oxidizing agents. Strong acids.

Hazardous decomposition products

Hazardous decomposition products: In combustion emits toxic fumes.

11. Toxicological Information

Information on toxicological effects:

Hazardous ingredients:

Sodium Dodecylbenzene Sulfonate

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous: calculated

Symptoms / route of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed /Immediate effects: Immediate effects can be expected after short-term exposure.

12. Ecological Information

Toxicity:

Ecotoxicity values: No date available

Persistence and degradability

Persistence and degradability: Biodegradable

Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential

Mobility in soil

Mobility: Readily absorbed into soil

Results of OBT and vPvB assessment

PBT identification: This product is not identified as a PBT/uPvB substance

Other adverse effects

Other adverse effects: Negligible ecotoxicity.

13. Disposal Considerations

Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialized disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport Information

UN number:

UN proper shipping name:

Transport hazard class(es)

Packing group

Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

Special precautions for user:

Special precautions: No special precautions.

15. Regulatory Information

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

Specific regulations: Not applicable

Chemical safety Assessment

16. Other Information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No: 453/2010.

*indicates text in SDS which has changed since the last revision.

Disclaimer

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

Revision: 02

Revision Date : 24/08/15

Reason for Revision: New classification under 1272/2008