

SAFETY DATA SHEET

06/08/14

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Name: **Biological Laundry Powder**

A commercial laundry powder formulated to remove soiling from the majority of everyday fabrics in automatic machines. Not suitable for wools and silks. For professional use only.

Company Name: Spectrum Industrial Ltd
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Email: sales@spectrum-ind.co.uk

2. Hazards Identification

According to 67/548/EEC and 1999/45/EC, this product is classified as;

This product is not considered as a hazardous substance.

Eye contact: Transient superficial irritation.

Skin contact: Prolonged exposure may cause skin irritation.

Ingestion: Possible mild gastro-intestinal irritation with nausea and vomiting.

Inhalation: Inhaling aerosolized product may cause mild irritation of the respiratory system.

Environment: Raw materials are biodegradable. See Ecological Information (Section 12) for further details.
(See also Section 15 for Regulatory Information)

3. Composition/information on ingredients

Declarable Components

| Common Name | CAS | Classification | Conc |
|---|------------|------------------------------|-----------|
| SODIUM CARBONATE | 497-19-8 | Xi; R36 | 15 - 30 % |
| SALT OF LAS (Anionic Surfactant) | 68081-81-2 | Xn; R22. Xi; R38, R41 | 5 - 15 % |
| ALCOHOLETHOXYLATES AE7 (Nonionic Surfactant) | 64425-86-1 | Xn; R22. Xi; R41. N; R50 | 1 - 5 % |
| ALCOHOL ETHOXYLATES (Nonionic surfactant) | 68439-45-2 | Xn; R22. Xi; R41 | 1 - 5 % |
| SODIUM SILICATE | 13870-28-5 | Xi; R36 | 5 - 15 % |
| SODIUM CARBONATE PEROXIDE (Oxygen Bleaching Agent) | 15630-89-4 | Xn; R22. Xi; R36, R38. O; R8 | 5 - 15 % |
| Citronellol | 106-22-9 | Xi; R36/37/38 | <0.1 % |
| Geraniol | 106-24-1 | Xi; R36/38, R43. N; R51/53 | <0.1 % |
| Hexyl Cinnamic acid | 101-86-0 | Xi; R43 | <0.1% |

4. First-aid measures

Eye contact: Rinse thoroughly with plenty of water for several minutes.

If symptoms persist, seek medical advice.

Skin contact: Rinse affected area with water. If needed apply cold compress to relieve irritation.

If symptoms persist, discontinue use of product and seek medical advice.

Ingestion: Drink water to dilute product. Do not induce vomiting. Act immediately in order to prevent further irritation of mouth, throat and stomach mucosa. If symptoms persist, if persistent vomiting occurs or if blood tinged vomit is present, seek medical advice.

Inhalation: Go into open air and ventilate suspected area. If irritation is experienced, mouth and throat may be rinsed with water. Particles adhering to the nasal cavity may be rinsed/diluted with saline/plain water.

If irritation or asthma-like symptoms persist, seek medical advice.

5. Fire fighting measures

Extinguishing media: Product itself is not explosive or flammable. The product itself will not burn. If anything, packaging may be involved in a fire. Use CO₂, dry chemical powder, alcohol resistant foam or other media appropriate for materials actually involved in the fire. If water is used, contain run-off.

Special hazards: When heated sufficiently, product may decompose to form smoke and toxic fumes.

Special protective equipment: Fire fighters should wear approved self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

Personal precautions:

Avoid contact with skin and eyes. For appropriate personal protection see section 8.

Environmental precautions:

Although this product is suitable for down the drain disposal it is advised that as much of the dry material is contained before final dispersal of any residue with water.

Methods and material for containment and clean-up:

For large spills: collect spillage with a vacuum (preferable) or brush and shovel and rework/dispose as per local legislation. For small spills: shovel into container for disposal.

7. Handling and storage

Precautions for safe handling:

Avoid contact with skin and eyes and inhalation of dust. Wear protective clothing as per section 8.

Storage precautions:

Store in closed original container in a cool and dry area with sufficient ventilation.

8. Exposure controls / personal protection

Not a hazard in normal use.

Control parameters:

General dust limit value 6 mg/m³ (fine dust concentration)

Exposure controls:

Good general ventilation is recommended.

Respiratory protection: If dust is produced, wear P2 mask.

Hand protection: For contact with the product protective gloves made from Nitrile Rubber (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first sign of wear and tear. We recommend the change of single use protective gloves periodically and implementation of a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection: Wear tight fitting goggles or side shield safety glasses.

9. Physical and chemical properties

Appearance: white to blue powder with blue speckles

Odour: typical perfume

pH (10% aqueous solution) : 10.4

Melting point: Not determined

Boiling point: Not determined

Flash point: Not combustible

Evaporation rate: Not applicable

Flammability: Not combustible

Explosive properties: Non-Explosive

Oxidising properties: Non-Oxidising

Vapour pressure/density: Not applicable

Relative density: ca. 0.85-1.15 g/ml

Water solubility: high

Partition coefficient: Not determined

Auto ignition temperature: Not combustible

Decomposition temperature: Not determined

Viscosity: Not applicable

10. Stability and reactivity

Stability:

Stable under normal conditions.

Conditions to avoid:

None

Materials to avoid:

Do not mix with other cleaning products unless advised to do so by a professional from the industry.

11. Toxicological information

Acute toxicity: Not toxic by ingestion, dermal contact or inhalation. May cause vomiting if very large quantities are ingested. Do not induce vomiting.

Irritation/corrosivity: Possibility of slight irritation to skin and eyes. If irritant effects are seen, these will be mild to moderate, depending on exposure. If in contact with eyes flushing with water is recommended. Inhalation of dusts may cause slight irritation of respiratory system.

Sensitisation: Does not provoke a sensitisation reaction.

Repeated dose toxicity: Repeated exposure to low levels (e.g. on fabrics or diluted in washing water) will not cause adverse effects.

Carcinogenicity/mutagenicity/teratogenicity: Based on available data the classification criteria are not met.

12. Ecological information

On the basis of raw materials and comparable substances contained in the product the following ecological evaluation is obtained.

Ecotoxicity: This product is intended for wide dispersive use, is not considered harmful to aquatic organisms and is compatible with the down-the-drain disposal route.

Acute fish toxicity LC50 > 10 - <= 100 mg product/l.

Acute bacterial toxicity EC50 > 100 mg product/l.

Persistence and degradability: This product has not been found to cause long-term adverse effects in the environment. The surfactants used in this product are biodegradable in line with the requirements of EU Detergent Regulation (EC) No 648/2004. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Bioaccumulative potential: The surfactant ingredients of this product are not expected to bioaccumulate.

Mobility in soil: Not determined.

13. Disposal considerations

Consumer products ending up down the drain after use. Observe safe handling precautions and local legislation.

14. Transport information

UN No: None

Classification: Not classified as hazardous for transport.

UN proper shipping name: None

Transport hazard class: Not subject to ADR/IATA/IMDG/RID codes.

Packing group: None

Environmental hazards: None

Special precautions for user: None

15. Regulatory information

This product is not classified as dangerous according to Regulation (EC) No 1272/2008 and national laws. All substances in the preparation are registered in the EU.

Risk phrases None.

Safety phrases:

- S2 Keep out of the reach of children.
- S22 Do not breathe dust
- S26 In case of contact with eyes, rinse immediately with plenty of water
- S28 After contact with skin, wash immediately with plenty of water
- S46 If swallowed, seek medical advice immediately and show this label

The information given has been compiled with reference to the Chemicals (Hazard Information & Packaging For Supply) Regulations (CHIP4) 2009 as amended, the Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH) Regulations, as amended, the Control of Substances Hazardous to Health Regulations (COSHH) 2002, as amended, and Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. This information also harmonises the provisions and criteria for the classification and labelling of substances, mixtures and certain specific articles within the Community, taking into account the classification criteria and labelling rules of the GHS.

16. Other information

This product does not require any special training before use. Usage and handling instructions are mentioned on this Material Safety Data Sheet. The labelling of the product is indicated in Section 15.

The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

R8 Contact with combustible material may cause fire.

R22 Harmful if swallowed.

R34 Causes burns.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.