

Safety Data Sheet: Aqua-Zorb™ Granular

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

- 1.1 Identification of the Substance or Preparation:**
AQUA-ZORB™ Granular
- 1.2 Intended Use of the Preparation:** As a soil wetting agent.
- 1.3 Company/Undertaking Identification:**
Turftech International Limited,
5 Cable Court, Pittman Way,
Fulwood, Preston,
Lancashire PR2 9YW,
England
- 1.4 Emergency Telephone Number:** +44 (0) 7836 726201
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients: A blend of non-ionic ethylene oxide derivatives and Cellulose complex.
None-ionic surfactant: 16%
Cellulose complex: 84%

Appearance: Grey coloured granules.

Odour: Mild odour.

3. HAZARDS IDENTIFICATION

Eye: Low to moderate irritant. Direct contact – prolonged exposure may result in lacrimation, pain, redness and conjunctivitis.

Inhalation: Low irritant. Over exposure may result in mucous membrane irritation, and irritation of the nose and throat coughing.

Skin: Low irritant. Prolonged and repeated contact may result in irritation, skin rash and dermatitis.

Ingestion: Low toxicity – low irritation. May result in headache, nausea, vomiting, gastrointestinal irritation and diarrhoea.

Hazard Summary: Low toxicity – low irritation. Use safe work practice to avoid eye or skin contact and vapour inhalation. Due to low vapour pressure of this product an inhalation hazard is not anticipated under normal conditions.

4. FIRST AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Inhalation: If over exposure occurs, leave exposure area immediately. If other than minor symptoms are displayed, seek immediate medical attention.

Skin Contact: Gently flush affected areas with soap and water. Seek medical attention if irritation develops.

Ingestion: If poisoning occurs, contact a Doctor or Poisons Information Centre. Do not induce vomiting. Seek medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon Dioxide, dry chemical, foam, sand or water spray.

Extinguishing Media not to be Used: None.

Specific Exposure Hazards: Non flammable. If product is present in a fire situation, toxic gases may be evolved. Evacuate area and contact emergency services. Remain upwind and notify those downwind of the potential hazard. Full protective equipment including self contained breathing apparatus is recommended when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Protective Equipment for Fire Fighters: Full protective clothing and self-contained breathing apparatus must be worn.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: No special measures required.

Environmental Precautions: Do not release to drain.

Methods for Cleaning Up: Clean up promptly. Cover spill with absorbent material. Collect by sweeping up and place in container for disposal.

7. HANDLING AND STORAGE

7.1 Handling

Precautions: Handle under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure.

Technical Measures: Engineering controls such as local exhaust ventilation should be used in order to reduce exposure.

Specific Requirements: None.

7.2 Storage

Specific Design for Storage Rooms or Vessels: None.

Incompatible Materials: Oxidising agents (e.g. hypochlorites, peroxides), acids (e.g. nitric acid).

Conditions of Storage: Store in a cool, dry well-ventilated area, removed from direct sunlight, oxidising agents, acid, heat sources and food stuffs. Ensure containers are adequately labelled, protected from physical damage and tightly closed when not in use.

Quantity Limits: None.

Packaging Materials: Polythene bags inside cardboard cartons.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: No exposure limits have been established.

Engineering Measures: Engineering control such as local exhaust ventilation are recommended to reduce exposure.

Specific Control Parameters: None.

Personal Protective Equipment: The provision for personal protective equipment and the need to provide engineering control measures should be decided upon by the user as part of a formal exposure risk assessment.

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

Respiratory Protection: Based upon current information and in the absence of occupational exposure limits, the use of an organic vapour mask to a minimum standard of EN405FFA1 is recommended.

Hand Protection: 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 gloves.

Eye Protection: Eye protection should be used. The protection should be capable of giving chemical protection as classified in EN166.

Skin Protection: Handling of the material should be done wearing chemical protective clothing suitable for protection against the chemical by Standard EN368.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|-------------------------------------|---|
| Appearance: | Grey – Granular form |
| Odour: | Mild characteristic |
| pH: | 6.5 +/- 1 |
| Boiling Point/Boiling Range: | Not applicable |
| Flammability: | Not flammable |
| Auto Flammability: | Not applicable |
| Flash Point: | 150°C |
| Explosive Properties: | Not determined |
| Oxidising Properties: | Do not allow to come in contact with oxidising agents |
| Vapour Pressure: | Not applicable |
| Relative Density: | c.750Kg/m ³ |
| Solubility: | Cellulose complex is not soluble, but none toxic surfactants are soluble in water |
| Fat Solubility: | Not determined |
| Viscosity: | Not applicable |
| Vapour Density: | Not determined |
| Evaporation Rate: | Not applicable |

10. STABILITY AND REACTIVITY

| | |
|--|-------------------------|
| Conditions to Avoid: | None known |
| Material to Avoid: | Oxidising agents, acids |
| Hazardous Decomposition Products: | None known |

11. TOXICOLOGICAL INFORMATION

Based on the assigned classification and labelling of the components contained within it and based on the principles of the Dangerous Preparations Directive (1999/45/EC) the preparation may be a skin irritant and a severe eye irritant. An eye irritation study of the preparation has confirmed the severe eye irritancy. A skin irritation study on the preparation has shown that it is only a mild irritant and so no risk phrase is needed for this end-point as this study takes precedence over the calculation method. Oral LD50 (rats) – OECD Test Guideline 426, 2006 – >2.000 mg/kg

12. ECOLOGICAL INFORMATION

Based on the assigned classification and labelling of the components contained within it and based on the principles of the Dangerous Preparations Directive (1999/45/EC), the preparation may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste from Residues: Disposal of by incineration or landfill in accordance with local regulations. Stack gases should be scrubbed.

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

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

ADR/RID: Class: Not applicable/Not regulated.

IMO: Proper shipping name: Not applicable/Not regulated.

ICAO/IATA: Proper shipping name: Not applicable/Not regulated.

Packing instructions/Maximum net quantity per package:

Passenger aircraft:

Cargo aircraft:

15. REGULATORY INFORMATION

EU Classification and Labelling

Symbols: Xi

R-phrases: R41 Risk of serious damage to eyes.

S-phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 Wear eye/face protection. Local regulations should be observed.

Local Regulations: Any relevant local regulations should be observed.

16. OTHER INFORMATION

Component Risk Phrases: This safety data sheet was issued in February 2013 and replaces that made in April 2011. No changes made.

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Nothing herein is to be construed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any product for their own particular purpose.