

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Id: H639 Supplier's Name: Brodi Specialty Products Ltd.
Product Name: Greenzyme Floor Cleaner and Degreaser Supplier's Address: 3175 14th Ave, Unit 1 Markham, Ontario L3R 0H1
Synonyms: None Information Phone: 1-(877) 744-0751
Chemical Family: None Known Emergency Phone: (613) 996-6666
Application: Not Available.
Prepared By: MSDS Co-ordinator, (877) 744-0751 ext 205, Brodi Specialty Products Ltd
Date Prepared: December 1, 2011

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Percentage (W/W) LD50s and LC50s Route & Species:
Alkyl benzenesulfonic acid 68584-22-5 1-5 Dermal LD50 (Rat) 530 mg/kg Oral LD50 (Rat) 530 mg/kg
Ammonium Lauryl Sulfate 2235-54-3 1-5 Not available.
Alcohols, C11-14-iso-, C13-rich, ethoxylated 78330-21-9 1-5 Not available.
Sodium Xylenesulphonate (SXS) 1300-72-7 0.1-1 Oral LD50 (Rat) 7200 mg/kg
Tetrasodium ethylene diamine tetraacetate
64-02-8 0.1-1 Oral LD50 (Rat) 1658 mg/kg
Note: No additional remark.

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:
Eye Contact: May cause eye irritation.
Skin Contact: May cause mild skin irritation.
Inhalation: May irritate the lungs.
Ingestion: Harmful if swallowed. May cause pain, nausea, vomiting and diarrhea.

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.
Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.
Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point: None.
Flash Point Method: Not applicable.
Autoignition Temperature: Not Available.
Flammable Limits in Air (%): Not Available.
Extinguishing Media: Use DRY chemicals, CO2, alcohol foam or water spray.
Special Exposure Hazards: Not Available.
Hazardous Decomposition/Combustion Materials (under fire conditions): Not available.
Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.
NFPA RATINGS FOR THIS PRODUCT ARE: Not Available.
HMIS RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.
Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities. Procedure for Clean Up: Isolate hazard area and restrict access. Absorb with an inert dry material and place in an appropriate waste disposal container. Avoid direct contact with material.

7. HANDLING AND STORAGE

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. Storage: Store in a cool, dry, well-ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:
Use in a well ventilated area.
Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied air respirator.
Gloves: Appropriate chemical resistant gloves should be worn.
Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.
Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.
Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the workstation location.
Ingredients Exposure Limit - ACGIH Exposure Limit - OSHA Immediately Dangerous to Life or Health - IDLH
Dodecylbenzene Sulfonic Acid Not available. Not available. Not Available.
Ammonium Lauryl Sulfate Not available. Not available. Not Available.
D-limonene Not available. Not available. Not Available.
Tetrasodium ethylene diamine tetraacetate Not available. Not available. Not Available.
Sodium Hydroxide 2mg/m3 Ceiling 2 mg/m3 Ceiling 10 mg/m3

1,2-benzisothiazol-3(2h)-one Not available. Not available. Not Available.
Propylene glycol Not available. Not available. Not Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Colour: Light Orange
Odour: Perfumed.
pH 7.5-8
Specific Gravity: 1
Boiling Point: 100 °C / 212 °F
Freezing/Melting Point: Not Available.
Vapour Pressure: Not Available.
Vapour Density: Not Available.
% Volatile by Volume: Not Available.
Evaporation Rate: Not Available.
Solubility: Completely soluble.
VOCs: Not Available.
Viscosity: Not Available.
Molecular Weight: Not Available.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: None known.
Materials to Avoid: Strong acids or alkalis.
Hazardous Decomposition Products: Not available.
Additional Information:
No additional remark..

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure
Ingestion: Harmful if swallowed. May cause pain, nausea, vomiting and diarrhea. Skin Contact: May cause mild skin irritation. Inhalation: May irritate the lungs. Eye Contact: May cause eye irritation

Additional Information:

Acute Test of Product: Acute Oral LD50: Not Available. Acute Dermal LD50: Not Available. Acute Inhalation LC50: Not Available.
Carcinogenicity:

Ingredients IARC - Carcinogens ACGIH - Carcinogens
Alkyl benzenesulfonic acid Not listed. Not listed.
Ammonium Lauryl Sulfate Not listed. Not listed.
Alcohols, C11-14-iso-, CIS-rich, ethoxyiated Not listed. Not listed.
Sodium Xylenesulphonate (SXS) Not listed. Not listed.
Tetrasodium ethylene diamine tetraacetate Not listed. Not listed.
Carcinogenicity Comment: No additional information available.
Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity: Not Available.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

| Ingredients | Ecotoxicity - Fish Species Data | Acute Crustaceans Toxicity: | Ecotoxicity - Freshwater Algae Data |
|--|----------------------------------|-----------------------------|-------------------------------------|
| Alkyl benzenesulfonic acid | Not Available. | Not Available. | Not Available. |
| Ammonium Lauryl Sulfate | Not Available. | Not Available. | Not Available. |
| Alcohols, C11-14-iso-, CIS-rich, ethoxyiated | | Not Available. | Not Available. |
| Sodium Xylenesulphonate (SXS) | Not Available. | Not Available. | Not Available. |
| Tetrasodium ethylene diamine tetraacetate | LC50 (bluegill sunfish) 490 mg/L | Not Available. | Not Available. |

Other Information:
No additional remark.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

| Ingredients | Ecotoxicity - Fish Species Data | Acute Crustaceans Toxicity: | Ecotoxicity - Freshwater Algae Data |
|---|----------------------------------|-----------------------------|-------------------------------------|
| Dodecylbenzene Sulfonic Acid | LC50 (rainbow trout) 10.8 mg/L | Not Available. | Not Available. |
| Ammonium Lauryl Sulfate | Not Available. | Not Available. | Not Available. |
| D-limonene | LC50 (fathead minnow) 702 mg/L | Not Available. | Not Available. |
| Tetrasodium ethylene diamine tetraacetate | LC50 (bluegill sunfish) 490 mg/L | Not Available. | Not Available. |
| Sodium Hydroxide | LC50 (Rainbow Trout) 1149 mg/l | | |
| | LC50 (Chinook Salmon) 152 mg/l | Not Available. | Not Available. |
| 1,2-benzisothiazol-3(2h)-one | Not Available. | Not Available. | Not Available. |
| Propylene glycol | LC50 (guppy) 10000 mg/L | LC50 (goldfish) 5000 mg/L | Not Available. |

Other Information:
No additional remark.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

DOT (U.S.):
DOT Shipping Name: Not Regulated.
DOT Hazardous Class Not Applicable.
DOT UN Number: Not Applicable.
DOT Packing Group: Not Applicable.
DOT Reportable Quantity (lbs): Not Applicable.
Note: No additional remark.
Marine Pollutant: No.

ICAO/IATA:
IATA Proper Shipping Name: Not Regulated.
IATA Hazard Class: Not Applicable.
UN Number: Not Applicable.
Packing Group: Not Applicable.
IATA Label: Not Applicable.
IATA Remarks: No additional remark.

IMDG:
IMDG Proper Shipping Name: Not Regulated.
Hazard Class: Not Applicable.
UN Number: Not Applicable.
Packing Group: Not Applicable.
Marine Pollutant: No.
IMDG Label: Not Applicable.
Remarks: No additional remark.

TDG (Canada):
TDG Proper Shipping Name: Not Regulated.
Hazard Class: Not Applicable.
UN Number: Not Applicable.
Packing Group: Not Applicable.
Note: No additional remark.
Marine Pollutant: No.

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

U.S. Regulatory Rules

Ingredients CERCLA/SARA - Section 302: SARA (311, 312) Hazard Class: CERCLA/SARA - Section 313:

Alkyl benzenesulfonic acid Not Listed. Not Listed. Not Listed.

Ammonium Lauryl Sulfate Not Listed. Not Listed. Not Listed.

Alcohols, C11-14-iso-, CIS-rich, ethoxylated Not Listed. Not Listed. Not Listed.

Sodium Xylenesulphonate (SXS) Not Listed. Not Listed. Not Listed.

Tetrasodium ethylene diamine tetraacetate Not Listed. Not Listed. Not Listed.

California Proposition 65: Not Listed.

MA Right to Know List: Not Listed.

New Jersey Right-to-Know List: Not Listed.

Pennsylvania Right to Know List: Not Listed.

WHMIS Hazardous Class: D2B TOXIC MATERIALS

16. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contain all the information required by the CPR.

Disclaimer: NOTICE TO READER:

Brodi expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Brodi Sales Office.

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END OF MSDS