

Please see Section 16 for the full text of R-Phrases and H-Phrases

Section 4: First Aid Measures

4.1 Description of First Aid Measures

Eye Contact: Remove contact lenses if present and flush eyes with water for at least 15 minutes

Skin Contact: Remove contaminated clothing. Wash the skin thoroughly with soap and rinse with water.

Inhalation: Remove from source of exposure to fresh air.

Ingestion: Immediately give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat.

4.2 Seek medical attention if symptoms or irritation persists

Section 5: Fire-Fighting Measures

5.1 Special Fire Fighting Procedures: None

5.2 Fire and Explosion Hazards: None

5.3 Suitable Extinguishing Media: N/A

5.4 Unsuitable Extinguishing Media: None

Section 6: Accidental Release Measures

6.1 Personal Precautions: Use personal protection recommended in Section 8.

6.2 EPA Hazardous Substance: No

6.3 Methods for Containment: Stop leak. Use berms, dikes, absorbent material and drain covers.

6.4 Methods for clean up: Mechanically collect and remove spilled material. Area may be washed with water.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling: No special requirements. Material has a very low toxicity, therefore risk of Damage is limited in normal handling and minor release is not expected to be hazardous.

7.2 Storage: Recommended that product not be subject to freezing.

7.3 RCRA Status of Unused Material: Not a "Hazardous Waste"

Section 8: Exposure Controls/Personal Protection

8.1 Threshold Limit Values: OSHA PEL: None established yet

8.2 Exposure Controls: Adequate ventilation for comfort is recommended.

8.3 Personal Protective Equipment:

Respiratory Protection: For misty conditions, wear NIOSH-approved dust or mist respirator.

Hand Protection: Impervious gloves recommended for prolonged exposure.

Eye and Face Protection: For misty conditions or when handling solutions where there is reasonable Probability of eye contact, wear chemical safety goggles and hat. Under these conditions, Do not wear contact lenses.

Skin Protection: Wear suitable protective clothing such as long-sleeve shirt, pants and boots with socks.

Other protective equipment: Not generally required

Section 9: Physical and Chemical Properties

9.1 Physical State/Appearance/Odor: Brown Liquid with sweet smelling odor.

9.2 Information on Basic Physical and Chemical Properties:

Parameter	Value/Unit	Remark
pH	3.0-3.5	
Melting Point		Not Applicable
Initial Boiling Point	100C/212F	
Freezing Point	0C/32F	
Flash Point		Not Flammable
Evaporation Rate		Not Applicable
Flammability Limits in Air (% by vol.)		Not Applicable
Vapor Pressure (mmHg at 77F)	7-15	
Vapor Density (Air – 1)	Same as Water	
Specific Gravity (H ₂ O = 1)	1.2972	
Partition Coefficient N-Octanol/Water		Not Applicable
Auto-Ignition Temperature		Not Applicable
% Volatiles by Volume		Not Applicable
Bulk Density (g/ml)		Not Applicable
Dry Matter, %		None Applicable
Solubility in Water	Complete	

Section 10: Stability and Reactivity

10.1 Chemical Stability: Stable

10.2 Incompatible Materials: N/A

10.3 Hazardous Decomposition Products: Does not decompose

10.4 Hazardous Polymerization: Will Not Occur

10.5 Conditions to Avoid: None Known

Section 11: Toxicological Information

11.1 Acute (Single Exposure) Toxic Tests, Product/Similar Product

Permissible Concentration References: None established by OSHA

Route of Exposure

Value/Unit

Oral LD₅₀

Not Known

Skin Contact

Not Known

Eye Contact

May irritate or burn eyes

Sensitization to Material

None known

Chronic Toxicity

Product/Similar Product

Carcinogen Listings

Not a carcinogen

Mutagenicity

In vitro mutagenicity studies were negative

Section 12: Ecological Information

Product/Similar Product

12.1 Biological Oxygen Demand (BOD): Not known

12.2 Chemical Oxygen Demand (COD): Not known

Based largely or completely on data for major component(s). Material is practically non-toxic to aquatic Organisms on the acute basis (LC50 greater than 100 mg/L in most sensitive species).

Section 13: Disposal Considerations

13.1 Waste Treatments Methods: This product is not to be considered Hazardous Waste.
Dispose of in accordance with Local Authority requirements.

Section 14: Transport Information

14.1 UN-No:

14.2 UN Proper Shipping Name: DOT - Class 50

14.3 Transport Hazard Class(es): DOT – Non-Regulated

14.4 Transport Hazard Class(es): IATA – Non-Regulated

14.5 Packaging Group: Not applicable

14.6 EU Classified as Dangerous Goods:

14.7 Harmonized Tariff Code for US:

Section 15: Regulatory Information

Regulatory Information (Not meant to be all-inclusive – selected regulations represented)

- 15.1** The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial and local laws and regulations. The following specific information is made for the purpose of complying with numerous federal, state or provincial and local laws and regulations. See other sections for health and safety information.
- 15.2** U.S. Regulations: SARA 313 Information: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.
- 15.3** SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986(SARA Title III) and is considered, under applicable definitions, to meet the following categories:
- An Immediate Hazard – This product has been classified as "an immediate health hazard" due to a possibility of eye or skin irritation.
 - Toxic Substance Control Act (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.
 - State Right-to-Know: This product is not known to contain any substances subject to the disclosure requirements of New Jersey and Pennsylvania.
 - Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund): To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

Section 16: Other Information

16.1 HMIS Rating (0-4): Health=1 Fire=0 Reactivity=0 Special=0

Prepared by: SoilBiotics

The information and recommendations contained herein are offered as a service to our customers but are not intended to relieve the user from its responsibility to investigate and understand pertinent sources of information and to comply with all laws and procedures applicable to the safe handling and use of these materials. The information and recommendations proved herein were believed by SoilBiotics to be accurate at the time of preparation or obtained from sources believed to be generally reliable. However, SoilBiotics makes no warranty concerning their accuracy and SoilBiotics will not be liable for claims relating to any party's use of reliance on information or recommendations contained herein, regardless of whether it is claimed that the information or recommendations are inaccurate, incomplete or otherwise misleading.