



Date: 06/01/2015
Revision: 00

Safety Data Sheet Natural Clarifier for Pools & Spas

Section 1: Identification

Product Identifier: Natural Clarifier for Pools & Spas
Other Means of Identification: Chitosan Acetate
Recommended Use: Flocculent - Water Clarifier
Manufacturer's Name: Eco Blu, Inc.
Corporate Address: 5714 134th Place SEA18, Everett, WA 98208
Manufacturer's Telephone: (253) 838-3111 (Monday-Friday, 8AM-5PM PT)
Emergency Phone Number: (253) 838-3111 (Monday-Friday, 8AM-5PM PT)

Section 2: Hazard(s) Identification

Hazard Classification: This product is not classified according to the Globally Harmonized System (GHS).

Signal Word: N/A

Hazard statement(s): N/A

Pictograms: N/A

Precautionary Statement(s): N/A

Hazards Not Otherwise Classified: N/A

Ingredient(s) With Unknown Toxicity: 0% of the mixture consists of ingredient(s) with unknown acute toxicity.

Section 3: Composition/Information on Ingredients

Chemical Name: Poly[(1,4)-D-glucose-2-amine], Acetic Acid, Oxidane

Common Name and Synonyms: Chitosan, Vinegar, Water

Chemical Abstracts Service (CAS) Number and Other Unique Identifiers: 90-12-76-4, 64-19-7, 7732-18-5

Concentration: Solution of a proprietary grade of chitosan, acetic acid and water. The solution percentages are 2.0% chitosan in 1.5% acetic acid in water. All percentages are calculated by weight.

Impurities and Stabilizing Additives, Which Are Themselves Classified and Which Contribute to the Classification of the Chemical: None

The Chemical Name and Concentration of All Ingredients Which Are Classified As Health Hazards and Are Present Above Their Cut-Off/Concentration Limits or Present a Health Risk Below the Cut-Off/Concentration Limits: None

Chemicals Where a Trade Secret Is Claimed: None

Section 4: First-Aid Measures

Inhalation: If large amounts of fumes are inhaled, remove to fresh air and consult a physician.

Skin: Cleansing the skin after exposure is advisable.

Eyes: Remove contact lenses (if applicable), flush with water for 15 minutes. Call a physician.

Ingestion: No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

Most Important Symptoms or Effects, and Any Symptoms That Are Acute or Delayed: N/A

Recommendations for Immediate Medical Care and Special Treatment Needed, When Necessary: N/A

Section 5: Fire-Fighting Measures

Suitable / Unsuitable Extinguishing Equipment: Does not burn. Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

Specific Hazards: None known.

Special Protective Equipment or Precautions for Fire Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Section 6: Accidental Release Measures

Personal Precautions: Refer to Section 8: Exposure Controls/Personal Protection and Section 7: Handling and Storage.

Emergency Procedures: None.

Methods and Materials for Containment and Cleanup: Spill materials may be absorbed using sand, clay or commercial absorbent. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area by flushing with large amounts of water. Dispose of per guidelines under Section 13: Disposal Considerations.

Section 7: Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing. Follow manufacturer's instructions for cleaning/maintaining PPE. If not such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Storage: Store in original container in a cool, dry and well ventilated area away from direct heat. Do not allow to freeze. Store away from strong oxidizers and strong bases.

Section 8: Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs): Not applicable.

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs): Not applicable.

Any Other Exposure Limit Used or Recommended: Not applicable.

Appropriate Engineering Controls: Adequate ventilation.

Individual Protection Measures (Personal Protective Equipment – PPE): Safety goggles recommended. Avoid skin contact with protective gloves and clothing. Wear chemical resistant gloves. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use is not required for this product.

Section 9: Physical and Chemical Properties

Appearance: Blue Liquid

Odor: Vinegar Odor

Odor threshold: No data available.

pH: 3.0 - 4.0

Melting Point/Freezing Point: No data available.

Initial Boiling Point and Boiling Range: 211°F

Flash Point: No data available.

Evaporation Rate: No data available.

Flammability (Solid, Gas): No data available.

Upper/Lower Flammability or Explosive Limits: No data available.

Vapor Pressure: No data available.

Vapor Density: No data available.

Relative Density: 1.0-1.1 g/mL.

Solubility(ies): Miscible.

Partition Coefficient (n-octanol/water): No data available.

Auto-ignition Temperature: Product will not auto-ignite.

Decomposition Temperature: No data available.

Viscosity: No data available.

***NOTE:** These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.*

Section 10: Stability and Reactivity

Reactivity: Material is stable under normal temperatures.

Chemical Stability: Material is stable under normal temperatures.

Possibility of Hazardous Reactions: Hazardous Polymerization will not occur.

Conditions to Avoid: Freezing temperatures or excess heat.

Incompatible Materials: Strong oxidizing material and strong bases.

Hazardous Decomposition Products: Decomposition will not occur.

Section 11: Toxicological Information

Likely Routes of Exposure (Inhalation, Ingestion, Skin and Eye Contact): Ingestion, inhalation, no appreciable entry known through intact skin although irritation possible, eye contact. No irritant effect on the skin. No irritant effect on the eyes. No sensitizing effects known.

Delayed, Immediate, or Chronic Effects from Short- and Long-Term Exposure: No data available.

Numerical Measures of Toxicity:

Oral LD₅₀: Not available.

Dermal LD₅₀: Not available.

Inhalation LC₅₀: Not available.

Description of the symptoms: No data available.

Carcinogenicity (NTP, IARC, or OSHA): This product is not known or reported to be carcinogenic by any reference source including NTP, IARC, or OSHA.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: Not available.

Persistence and Degradability: Not available.

Bioaccumulative Potential: Not available.

Mobility in Soil: Not available.

Other Adverse Effects: None known.

Section 13: Disposal Considerations (non-mandatory)

Appropriate Disposal Containers: Rinse original container with water before disposal.

Recommended Appropriate Disposal Methods: Can be disposed of with household waste.

Physical and Chemical Properties That May Affect Disposal Activities: None.

Special Precautions for Landfills or Incineration Activities: None.

Do not dispose of into sewer.

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

To minimize exposure, refer to Section 8: Exposure Controls/Personal Protection

Section 14: Transport Information (non-mandatory)

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es): Not regulated.

Packing Group Number, if Applicable: Not regulated.

Environmental Hazards (e.g., Marine pollutant (Yes/No)): No.

Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable.

Special Precautions Which a User Needs to Be Aware of, or Needs to Comply With, in Connection With Transport or Conveyance Either Within or Outside Their Premises: None.

Section 15: Regulatory Information (non-mandatory)

National and/or Regional Regulatory Information of the Chemical or Mixtures (Including Any OSHA, Department of Transportation, Environmental Protection Agency, or Consumer Product Safety Commission Regulations):

TSCA: Not listed on the TSCA inventory.

CERCLA Reportable Quantity (RQ): None of the ingredients is listed.

OSHA: Not considered hazardous.

EPA: Exempt from EPA code.

SARA Section 302: Does not have an RQ or TPQ.

SARA Section 311/312: Not reportable under Section 311/312.

SARA Section 313: Not reportable under Section 313.

California Proposition 65: Not applicable.

Section 16: Other Information

REVISION INFORMATION:

SDS sections(s) changed since last revision of document:

00 06/01/2015 Original SDS Document

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