

ENZYME SOLUTIONS

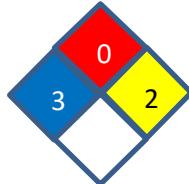
INCORPORATED

SAFETY DATA SHEET

Section 1: Identification

Product Name: Alkaline Detergent
Product Code: 2000850
Recommended Use: High pH detergent
Manufacturer: Enzyme Solutions Incorporated
2105 Forrest Park Drive
Garrett, IN 46738 USA
Telephone #: +1-800-523-1323
FAX #: +1-260-553-9104
Website: www.enzymesolutions.com
Issue Date: 18-November-2013
Date of Last Revision: 17-August-2020
Emergency Contact: Chemtrec 1-800-424-9300 USA and Canada
Chemtrec 1-703-527-3887 Outside USA and Canada

NFPA

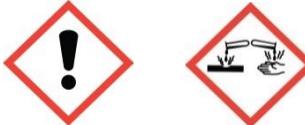


HMIS

Health Hazard	3
Fire Hazard	0
Reactivity	2
Personal Protection	C

Section 2: Hazard(s) Identification

GHS Pictogram:



Signal Word: DANGER
Hazard Statement: H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H318 - Causes serious eye damage.
Precautionary Statements: P264 - Wash hands and exposed areas thoroughly after handling.
P280 - Wear eye protection, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351 - IF IN EYES: Rinse cautiously with water for several minutes.

Section 3: Composition / Information on Hazardous Ingredients

Name	CAS No.	Function of Chemical
Water	Water	Solvent
Enzyme Ferment Blend	Proprietary	Catalyst
Potassium Silicate	1312-76-1	PH Buffer
Potassium Hydroxide	1310-58-3	Alkali
Gluconic Acid	526-95-4	Chelating Agent
Tetrasodium EDTA	64-02-8	Chelating Agent
DMDM Hydantoin	6440-58-0	Preservative
1H-Benzotriazole	95-14-7	Corrosion Inhibitor

Section 4:**First Aid Measures**

Eye Contact:	Immediately flush with cool water for at least 20 minutes. Seek medical attention immediately.
Skin Contact:	Immediately wash skin with soap and water for at least 20 minutes while removing contaminated clothing. Seek medical attention if irritation persists.
Ingestion:	Do NOT induce vomiting. Drink cool water. Transport to an emergency medical center. Never give anything by mouth to an unconscious person.
Inhalation:	Move victim to fresh air. Seek medical attention immediately.

Section 5:**Fire Fighting Measures**

Extinguishing Media:	Use extinguishing measures appropriate to local circumstances and surrounding environment.
Flash Point:	Not applicable.
Auto Ignition Temperature:	Not applicable.
Specific hazards:	Not flammable or combustible.
Special protective equipment:	As in any fire, wear a self-contained breathing apparatus (SCBA), approved according to NFPA / NIOSH or equivalent and full protective gear.

Section 6:**Accidental Release Measures**

Personal Precautions:	Keep personnel from entering spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches and waterways.
Methods for Containment:	Contain spills with an inert absorbent material, (sand, earth, vermiculite) and place in container for disposal according to local and national regulations.
Methods for Cleanup:	Flush away traces with water and clean with mop or rags.

Section 7:**Handling and Storage**

Handling:	Use with adequate ventilation. Avoid breathing vapors, spray, or mist.
Storage:	Store in a cool dry place. Keep partially used containers closed and away from heat and humidity. Do not exceed storage temperature of (50 °C) 120°F. Keep out of reach of children.

Section 8:**Exposure Controls / Personal Protection**

Engineering Controls:	Good general ventilation should be sufficient.
Eye Protection:	Safety glasses are required.

Skin Protection: Gloves are required.

Respiratory Protection: Use an approved respirator if exposure limits are exceeded.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance: Liquid

Color: Light Yellow

Odor: Mild Solvent

pH: 12.1 - 12.9

Specific Gravity: 1.025 -1.035

Freezing Point: Not determined.

Boiling Point: > 212°F

Flash Point: Not determined.

Water Solubility: Completely soluble.

Vapor Density: Not determined.

Vapor Pressure: Not determined.

Evaporation Rate: Not determined.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Hazardous Reactions: None known.

Conditions to Avoid: Extreme heat.

Incompatible Materials: Strong acids, nitrocarbons and chlorocarbons.

Section 11: Toxicological Information

Likely Routes of Exposure: Inhalation, eye contact and skin contact.

Potential Health Effects:

Eyes: Corrosive. Corneal damage, burning, redness, blurred vision.

Skin: Corrosive. Severe burns, redness.

Inhalation: Corrosive. Burns in respiratory tract, shortness of breath.

Ingestion: Corrosive. Damages mucous membranes, severe burning of gastrointestinal tissues, nausea and intestinal pain, vomiting and possible death if swallowed.

Chronic Exposure: Health injuries are not known or expected under normal use.

Section 12: Ecological Information

Ecotoxicity: Not determined.

Biodegradability: Not determined.

Bioaccumulation: Not determined.

Section 13: Disposal Considerations

Waste Disposal: Dispose of in accordance with local, state and federal regulations.

Section 14: Transport Information

Land Transport (DOT): Corrosive Liquid, Potassium Hydroxide Solution, 8, UN 1814, PG II

Sea Transport (IMDG/IMO): Corrosive Liquid, Potassium Hydroxide Solution, 8, UN 1814, PG II

Air Transport (IATA): Corrosive Liquid, Potassium Hydroxide Solution, 8, UN 1814, PG II

Section 15: Regulatory Information

TSCA Inventory: All components are listed.

CERCLA: Does not contain any components with reportable quantities.

SARA 302: None.

SARA 311/312 Hazards: Acute health hazard.

California Prop 65: None.

Section 16: Additional Information

Date of preparation: 18-November-2013

Date of Last Revision: 17-August-2020

SDS Author: Enzyme Solutions Incorporated

DISCLAIMER: The information provided in this Safety Data Sheet has been compiled, in good faith, from our experience and data presented in various technical publications. An SDS for a substance is not primarily intended for use by the general consumer, focusing instead on the hazards of working with the material in an occupational setting. It is believed to be accurate and represents the best information currently available. **HOWEVER, ENZYME SOLUTIONS INCORPORATED MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER TYPE, EXPRESSED OR IMPLIED, WITH RESPECT TO PRODUCTS DESCRIBED OR DATA OR INFORMATION PROVIDED, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OF SUCH PRODUCTS, DATA OR INFORMATION.** Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall Enzyme Solutions Incorporated be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Enzyme Solutions Incorporated has been advised of the possibility of such damages. We reserve the right to update an SDS from time to time as new information becomes available. It is the responsibility of the user to verify that they have the latest revision available.