

MATERIAL SAFETY DATA SHEET**NFPA RATING:** Health = 1 Flammability = 0 Reactivity = 0**HMIS RATING:** Health = 1 Flammability = 0 Reactivity = 0**SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION****Distributor's Name:** HILLYARD INDUSTRIES**Product Name:** HILLYARD LAUNDRY DETERGENT**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** July 1, 2010 (version 3)**Prepared by:** Regulatory Affairs Department**Emergency Telephone No.:** (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)**Other information calls:** (816) 233-1321 (Ext. 8285)<http://www.hillyard.com>**SECTION II -- INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Sodium Carbonate *	497-19-8		* See Below *		45-50
Sodium Metasilicate	6834-92-0	2 mg/m ³	2 mg/m ³	N/E	20-25
Alkylbenzenesulfonic Acid ***	27176-87-0	N/E	N/E	N/E	6-10
Nonylphenol Ethoxylate	9016-45-9	N/E	N/E	N/E	5-9

* Nuisance Particulates - PEL TWA 8 hour 15 mg/m³ Total Dust – PEL/TWA 8 hour 5 mg/m³ Respirable Dust – OSHA TLV/TWA 8 hour 10 mg/m³ Total Dust

*** S.A.R.A. Information: This item is identified as a hazardous substance under S.A.R.A. Title III, section 302, R.Q. 1000#.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS**Boiling Point:** N/A**Specific Gravity (H₂O = 1):** N/A**Vapor Pressure (mm Hg.):** N/A**Percent Volatile by Volume (%):** N/A**Vapor Density (AIR = 1):** N/A**Evaporation Rate (ethyl ether = 1):** N/A**Solubility in Water:** Complete**Appearance and Odor:** White, free flowing powder/Citrus like
Fragrance***pH:** 9.5 – 10.5**SECTION IV -- FIRE AND EXPLOSION HAZARD DATA****Flash point:** Not flammable**Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** Water spray, dry chemical, carbon dioxide.**Special Fire Fighting Procedures:** Pressure demand self-contained breathing apparatus should be worn. Protective clothing for skin & eye protection should be worn to protect against this alkaline product.**Unusual Fire and Explosion Hazards:** Water under pressure may cause frothing of product. Decomposes above 752°F, begins to evolve carbon dioxide.**SECTION V -- PHYSICAL HAZARDS****Stability:** Stable**Conditions to Avoid:** Keep containers closed to avoid caking.**Incompatibility (Materials to Avoid):** Do not mix with acids.**Hazardous Decomposition Products or Byproducts:** none**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** N/A**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. Can cause severe eye irritation/burns. Direct contact with product or its solutions may cause skin irritation and in severe cases skin burns. People who have a tendency to be allergic may react more readily to this product than most. Airborne concentrations of dust or mist may cause nasal irritation. Corrosive to tissue, causes immediate irritation and possible damage to the tissue of mouth, throat, esophagus or stomach. Can cause perforation of the esophagus or stomach. Ingestion of large amounts may cause vomiting, diarrhea, circulatory collapse and in acute cases death.
2. None known to manufacturer.

SECTION VI -- HEALTH HAZARD DATA cont.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

Signs and Symptoms of Exposure: Eye irritation, tearing. Dry cracked skin, possible redness. Ingestion: Vomiting, diarrhea, circulatory collapse and in acute cases death.

Medical Conditions Generally Aggravated by Exposure: Eye or skin disease and breathing or respiratory disorders.

Emergency and First Aid Procedures: **Eyes:** Flush eyes immediately and thoroughly for at least 15 minutes, lifting upper and lower lids periodically to ensure flushing of entire surface. Call a physician if irritation persists. **Skin:** Flush area immediately with water. Follow with washing of soap and water. Remove contaminated clothing and shoes, launder clothing before reuse. If irritation persists, call a physician. **Inhalation:** Remove person to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if breathing has stopped. Get medical attention. **Ingestion:** DO NOT induce vomiting. Give large quantities of water to cause dilution in stomach. Get medical attention, immediately. Do not attempt to neutralize with other chemicals.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep or shovel spilled material into marked containers for recovery or disposal. Neutralize spill area with dilute acid solution and flush with plenty of water. Before flushing residue and/or product into local sewer system, check pH of acceptable effluent water in accordance with local water treatment plant.

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

Precautions To Be Taken In Handling And Storing: KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. Keep containers closed when not in use. Do not store in food areas. Use according to label directions. Avoid prolonged contact with eyes and skin. Wash with soap and water before eating, drinking, smoking or using toilet facilities.

Other Precautions: Good safety and personal hygiene practices.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): None under normal use conditions. Dust type respirator recommended where exposure exceeds PEL/TLV limitations.

Ventilation:

Local Exhaust = Adequate **Mechanical (General) =** N/A **Special =** N/A **Other =** N/A

Protective Gloves: Rubber **Eye Protection:** Safety glasses if splashing or eye contact is likely. DO NOT wear contact lenses.

Other Protective Clothing or Equipment: Protective clothing to minimize skin contact. Standard work clothing and shoes.

Work / Hygienic Practices: Running water should be close at hand. Safety shower, eye wash. Wash after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning Compound

UN No.: not applicable **Limited Qty.:** not applicable **Hazard Class:** not applicable

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable

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The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

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