

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 (#540N21C)****Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** HD EXTRACTION**Address:** 302 North Fourth Street**Date Prepared:** October 2, 2007

St. Joseph, MO 64501

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)**SECTION II -- INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:**

| Common Name(s) | CAS# | OSHA PEL | ACGIH TLV | OTHER LIMITS RECOMMENDED | % |
|--------------------------------|---|-----------------|------------------|---------------------------------|----------|
| Water | 7732-18-5 | none | none | N/A | --- |
| Sodium Xylene Sulfonate | 1300-72-7 | none | none | N/A | --- |
| Complex Surfactant Blend | 68991-48-0 & 68439-46-3 | not established | not established | N/A | --- |
| Anionic Detergent Polymer | N.J. Trade Secret Registry #58-2380661-5021 | not established | not established | N/A | --- |
| Sodium Gluconate | 527-07-1 | not established | not established | N/A | --- |
| Sodium Carbonate | 497-19-8 | not established | not established | N/A | --- |
| Sodium Tetraborate Decahydrate | 1303-94-4 | not established | not established | N/A | --- |

VOC (concentrate) = 0% or when diluted Min. Dilution = 0%**SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS****Boiling Point:** 200°F**Specific Gravity (H₂O = 1):** 25°C = 1.07 & 39°C = 1.07**Vapor Pressure (mm Hg.):** 17.5**Percent Volatile by Volume (%):** 84.8%**Vapor Density (AIR = 1):** 0.6**Evaporation Rate (ethyl ether = 1):** slower than 1**Solubility in Water:** complete**Appearance and Odor:** Clear, colorless liquid, non-objectionable odor**pH =** concentrate: 9.7**SECTION IV -- FIRE AND EXPLOSION HAZARD DATA****Flash point:** None (T.C.C.)**Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** N/A**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.**Unusual Fire and Explosion Hazards:** None**SECTION V -- PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** N/A**Incompatibility (Materials to Avoid):** None known**Hazardous Decomposition Products or Byproducts:** None known**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** None known.**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. When tested per the Federal Hazardous Substance Act the concentrate was not a skin irritant; prolonged contact may cause mild skin irritation. When tested per the Federal Hazardous Substance Act, the concentrate was found to be a primary eye irritant with complete recovery by day 14. Concentrate was not acutely toxic orally at 5 g/kg. Acute Inhalation: Concentrate not acutely toxic at a concentration of 216 mg./Liter.

SECTION VI -- HEALTH HAZARD DATA continued.

Prolonged eye contact with the concentrate may cause irritation. Do not breathe fine fog spray mist. Prolonged overexposure to dry residue may cause nose and throat irritation. A single brief (minutes) inhalation exposure is not likely to cause adverse effects. Do not get in eye, on skin, or on clothing. Wash thoroughly after handling. 2. None known by Hillyard Industries.

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: Overexposure may cause drowsiness, headache and uncoordination.

Medical Conditions Generally Aggravated by Exposure: Person with pre-existing skin disorders may be more susceptible to irritation. Respiratory tract irritations may be aggravated by nuisance dust from excess dried solids.

Emergency and First Aid Procedures: In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. For eye contact, get medical attention.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Large spill: Absorb with an inert material such as sand, earth or vermiculite. Small spill: Pick up with wet vac or mop.

Waste Disposal Method No special method. Observe all applicable Federal, State, and Local requirements regarding disposal of non-hazardous materials. Waste from normal product use may be sewerred to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning.

Precautions To Be Taken In Handling And Storing: Prevent product from entering drinking water supplies or streams.

Other Precautions: Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning & Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): None required when used per label directions.

Ventilation:

Local Exhaust = Not necessary **Mechanical (General) =** Recommended **Special =** N/A **Other =** N/A

Protective Gloves: Not necessary for brief contact **Eye Protection:** Chemical goggles for handling concentrate when splashing is a concern and prolonged contact may occur.

Other Protective Clothing or Equipment: Wear trousers and long sleeved shirt.

Work / Hygienic Practices: Wash thoroughly 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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