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Pg 1

#161G

161P

**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 (0678C)**

**Manufacturer's Name:** HILLYARD INDUSTRIES

**Product Name:** CLEAN ACTION

**Address:** 302 North Fourth Street

**Date Prepared:** May 4, 1994

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. 303)

**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 citrate	68-04-2	not established	not established	*	2-6
Akyl imino acid, sodium salt	64972-19-6	none	none	N/A	—
Linear primary alcohol ethoxylate	68439-46-3	not established	not established	N/A	—
Sodium xylene sulfonate	1300-72-7	not established	not established	N/A	—

\* OSHA, Particles not otherwise regulated: Total dust PEL = 15 mg/M<sup>3</sup>; respirable dust = 5 mg/M<sup>3</sup>; ACGIH = 10 mg/M<sup>3</sup>.

**SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

**Boiling Point:** 216°F

**Specific Gravity (H2O = 1):** 25°C = 1.04 & 39°C = 1.04

**Vapor Pressure (mm Hg.):** 17.7

**Percent Volatile by Volume (%):** 89

**Vapor Density (AIR = 1):** 0.6

**Evaporation Rate (ethyl ether = 1):** slower than 1

**Solubility in Water:** appreciable

**Appearance and Odor:** clear liquid; herbal odor

**pH (concentrate) =** 6-8

**SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

**Flash point:** none (T.C.C.)

**Flammable Limits:** LEL = N/A UEL = N/A

**Extinguishing Media:** Water fog, carbon dioxide, foam, dry chemical

**Special Fire Fighting Procedures:** Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

**Unusual Fire and Explosion Hazards:** N/A

**SECTION V – PHYSICAL HAZARDS**

**Stability:** Stable

**Conditions to Avoid:** N/A

**Incompatibility (Materials to Avoid):** Avoid strong oxidizing agents or strong mineral acids.

**Hazardous Decomposition Products or Byproducts:** Decomposition products under fire conditions: fumes of ammonia, carbon monoxide, carbon dioxide, oxides of nitrogen and various hydrocarbons

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** N/A

**SECTION VI – HEALTH HAZARD DATA**

**Routes of entry:** Inhalation? No

Skin? No

Ingestion? No

**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. May cause eye irritation. Based on product testing, not a skin irritant per FHSA, CFR 15, Chapter IIc, paragraph 1500.41. Per acute oral toxicity testing on product, 0 mortality at 5 g/kg; acute inhalation (1 hr.) toxicity limit test = 0 mortality.

2. None known by the manufacturer.

34325, 34326

161 G  
161 P

34325, 34326

Pg 2

**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 or equal to 0.1%.

**Signs and Symptoms of Exposure:** Concentrate may be irritating to eyes if not removed promptly. Breathing of highly concentrated vapors or spray mists may cause irritation to the respiratory tract.

**Medical Conditions Generally Aggravated by Exposure:** N/A

**Emergency and First Aid Procedures:** In case of contact, immediately flush eyes with plenty of water for 15 minutes; get medical attention. If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

**SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Pick up with mop or wet vac and wash away with water.

Spills of concentrate should be picked up with wet vac and rinsed thoroughly.

**Waste Disposal Method:** Wash down sewer with large quantity of water. Container disposal: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

**Precautions To Be Taken In Handling And Storing:** Freezing of product may rupture container. Product shelf life is best retained by storage at 45-100 °F temperature.

**Other Precautions:** This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Sec. 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

**SECTION VIII – CONTROL MEASURES:**

**Respiratory Protection (Specify Type):** Not required

**Ventilation:**

Local Exhaust = Not required Mechanical (General) = N/A Special = N/A Other = N/A

**Protective Gloves:** None required **Eye Protection:** Safety goggles suggested where splash of concentrate is a concern

**Other Protective Clothing or Equipment:** None required

**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

**DISCLAIMER OF WARRANTIES**

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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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