

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 (497N-56A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: DEEP ACTION

Address: 302 North Fourth Street
St. Joseph, MO 64501

Date Prepared: April 24, 2000

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. 2303)

<http://www.hillyard.com>

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	---
Linear Primary Alcohol Ethoxylate	68439-46-3	not established	not established	N/A	---
B-alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl] monosodium salt	64972-19-6	not established	not established	N/A	---
Tetrasodium Salt of EDTA	64-02-8	not established	not established	N/A	---
Lauramine Oxide	1643-20-5	not established	not established	N/A	---
Sodium Xylene Sulfonate	1300-72-7	not established	not established	N/A	---

VOS = 0.08 lb./gal. -- Diluted VOS = 1.0%

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 205°F

Specific Gravity (H₂O) = 1): 25°C = 1.01 & 39°C = 1.01

Point:

Vapor Pressure (mm Hg.): 17.6

Percent Volatile by Volume (%): 95.7

Vapor Density (AIR = 1): 0.6

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

Solubility in Water: Complete

Appearance and Odor: Slightly hazy liquid, herbal fragrance

pH (concentrate) = 7.28

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: 200°F (T.C.C.)

Flammable Limits: LEL = N/A UEL = N/A (mixture)

Extinguishing Media: Carbon dioxide, dry chemical foam, water.

Special Fire Fighting Procedures: Wear full protective equipment including self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None known to Hillyard.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable

Conditions to Avoid: None Known

Incompatibility (Materials to Avoid): None known to Hillyard.

Hazardous Decomposition Products or Byproducts: As with any organic material, combustion will produce carbon dioxide, carbon monoxide, water and unidentified organic compounds.

Hazardous Polymerization: Will not occur

Conditions to Avoid: None known

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? no Skin? no Ingestion? no

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Concentrate suspect eye irritant. Concentrate is not a primary skin irritant per Federal Hazardous Substance Act. Acute oral limit test is not toxic at 5 gm./kg. Not acutely toxic following a 1-hour exposure at a nominal and actual concentration of 44.0 mg./L. Avoid prolonged contact with eyes or skin. Wash thoroughly after handling. 2. None known by Hillyard Industries.

SECTION VI -- HEALTH HAZARD DATA continued

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: None known by manufacturer.

Emergency and First Aid Procedures: In case of contact immediately flush eyes or skin with plenty of water for at least 15 minutes. Call a physician if eye irritation persists.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Pick up concentrate spill with absorbent or flush with plenty of water to a public sewage treatment facility.

Waste Disposal Method: Dispose of contaminated absorbent, container and unused contents in accordance with federal, state and local regulations.

Precautions To Be Taken In Handling And Storing: Since empty packages retain product residue, follow label warnings even after package is empty.

Other Precautions: Avoid contact with eyes. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 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): None required when used according to label directions.

Ventilation: None required when used according to label directions.

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

Protective Gloves: None required when used according to label directions.

Eye Protection: None required when used according to label directions.

Other Protective Clothing or Equipment: None needed

Work / Hygienic Practices: None needed

SECTION IX -- TRANSPORTATION INFORMATION

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

Proper shipping name for air and foreign water: Cleaning Compound.

Proper shipping name for U.S. highway: Cleaning Compound

UN No.: not applicable for highway **Limited Qty.:** not applicable **Hazard Class =** not applicable

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

EPA Hazardous waste characteristics:

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

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