

H009002

#468

MATERIAL SAFETY DATA SHEET

NEPA RATING: Health = 1 Flammability = 0 Reactivity = 0
 HMIS RATING: Health = 1/1 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (497N-12B)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: TAKE DOWN (FRESH AND CLEAN)
 Address: 302 North Fourth Street Date Prepared: January 12, 2000
 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)
<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	--
Mixture of Bacterial Spores	N/A	not established	not established	N/A	--
Octylphenoxy Polyethoxy	9036-19-5	not established	not established	N/A	--
Ethanol					

V.O.S. of concentrate = 1.28%

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 209°F Specific Gravity (H₂O = 1): 25°C = 1.00 & 39°C = 1.00
 Vapor Pressure (mm Hg.): 17.7 Percent Volatile by Volume (%): 92.9%
 Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: complete Appearance and Odor: Pale-yellow, translucent liquid, fresh and clean odor
 pH (concentrate) = 6-7

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None to Boiling (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A
 Extinguishing Media: N/A
 Special Fire Fighting Procedures: None known to manufacturer.
 Unusual Fire and Explosion Hazards: None known to manufacturer.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: Excessive hot or cold temperatures may kill microorganisms.
 Incompatibility (Materials to Avoid): Strong acids, alkalis or disinfectants may kill these microorganisms.
 Hazardous Decomposition Products or Byproducts: None known to manufacturer.
 Hazardous Polymerization: Will not occur. Conditions to Avoid: None known to Hillyard.

SECTION VI -- HEALTH HAZARD DATA

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

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. According to Primary Skin Irritation Test (FHSA), product concentrate is not an irritant; prolonged exposure may produce severe irritation in sensitive individuals; Eye Irritation Test (FHSA) = Concentrated product was considered to be an eye irritant; complete recovery was seen in all test subjects by day 13. When tested the concentrate was estimated to have acute oral LD₅₀ greater than 5 g/kg. When tested concentrate was not acutely toxic to the subjects following a 1 hour exposure to a concentration of 41.2 mg/L. (actual 41.2 mg/L.); thus LC₅₀ is greater than 41.2 mg/L. (actual 41.2 mg/L.). This is the maximum that could be generated with this test system.

2. None known to Hillyard.