

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 (0704A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: RE-JUV-NAL # HIL010

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

Date Prepared: June 26, 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	%
Didecyl dimethyl ammonium chloride	7173-51-5	not established	N/A	N/A	2.43
n-Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%) dimethyl benzyl ammonium chloride	8001-54-5	not established	N/A	N/A	1.62
Octyl dimethyl amine oxide	2605-78-9	not established	N/A	N/A	---
Edtate Disodium	139-33-3	not established	N/A	N/A	---
Deionized water	7732-18-5	none	N/A	N/A	---

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 210°F
 Vapor Pressure (mm Hg.): 17.6
 Vapor Density (AIR = 1): 0.6
 Solubility in Water: complete
 pH of concentrate: 6.5 - 7.5
 Specific Gravity (H₂O = 1): 25°C = 1.00 & 39°C = 1.00
 Percent Volatile by Volume (%): 94.7
 Evaporation Rate (ethyl ether = 1): slower than 1
 Appearance and Odor: clear, reddish-orange liquid; floral odor

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

Unusual Fire and Explosion Hazards: none

SECTION V -- PHYSICAL HAZARDS

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): acids

Hazardous Decomposition Products or Byproducts: none known to Hillyard

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. Causes eye irritation; may cause skin irritation. May be harmful if swallowed (LD₅₀ = 6.9 g/kg).
2. Inhalation of fine fog mist can cause irritation of mucous membranes. Fine fog mist application is not recommended.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No

I.A.R.C. Monographs = No

OSHA = No

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Direct eye contact can cause irritation; skin contact can cause irritation.

Medical Conditions Generally Aggravated by Exposure: None known to manufacturer.

Emergency and First Aid Procedures: Eyes: Immediately flush with water for 15 minutes; if irritation persists call physician. Skin: Immediately flush with plenty of water for 15 minutes; if irritation persists call physician. Ingestion: Drink promptly a large quantity of water. Avoid alcohol. Call a physician immediately.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Avoid contamination of food, water or feed. Contain spill.

Waste Disposal Method: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Precautions To Be Taken In Handling And Storing: Keep away from children.

Other Precautions: Triple rinse empty containers thoroughly with water before disposal. Remove contaminated clothing and wash before reuse. 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 normally required. If exposed to fine mist droplets of less than 15 microns, a NIOSH/MSHA approved respirator should be worn.

Ventilation:

Local Exhaust = recommended Mechanical (General) = N/A Special = N/A Other = N/A
Protective Gloves: rubber gloves Eye Protection: splash goggles

Other Protective Clothing or Equipment: none.

Work / Hygienic Practices: wash hands 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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