



MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 2 Flammability = 1 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (1090A)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: RE-JUV-NAL
Address: 302 North Fourth Street Date Prepared: September 21, 2006
St. Joseph, MO 64501 Prepared by: Regulatory Affairs Department
Emergency Telephone No.: (800) 424-9300 Other information calls: (816) 233-1321 (Ext. 8285)
http://www.hillyard.com

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components

Table with columns: Specific Chemical Identity, Common Name(s), CAS#, OSHA PEL, ACGIH TLV, OTHER LIMITS RECOMMENDED, %

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 210°F Specific Gravity (H2O = 1): 25°C = 1.00 & 39°C = 1.00
Vapor Pressure (mm Hg): 17.6 Percent Volatile by Volume (%): 94.7
Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete Appearance and Odor: clear, reddish-orange liquid; floral odor
pH of concentrate: 7.2 - 8.2

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: >200°F (Tag Closed Cup) Flammable Limits: LEL = Not applicable UEL = Not applicable
Extinguishing Media: Foam, alcohol foam, carbon dioxide, dry chemical, water
Special Fire Fighting Procedures: Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.
Unusual Fire and Explosion Hazards: Products of combustion are toxic.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: N/A
Incompatibility (Materials to Avoid): Strong oxidizing and reducing agents.
Hazardous Decomposition Products or Byproducts: Thermal decomposition may produce toxic vapors/fumes of Hydrogen chloride, amines, and other organic materials, and oxides of carbon and nitrogen.
Hazardous Polymerization: Will not occur Conditions to Avoid: None known to Hillyard

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? yes Skin? yes Eye? Yes Ingestion? yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. From previous experience with a 2 oz. per gallon alkaline quat, the oral LD50 (rat): 1850 mg/kg; Dermal LD50 (Rabbit): 4430 mg/kg; Eye: Diluted product 1:64 (rabbit) essentially non-irritating; Skin irritation: Diluted product 1:64 (rabbit) non-irritating. Inhalation of fine fog mist can cause irritation of mucous membranes. Fine fog mist application is not recommended. 2. None known to Hillyard.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

Signs and Symptoms of Exposure: Causes irreversible eye damage. Do not get in eyes or clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Avoid contact with skin. Harmful if inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**SECTION VI -- HEALTH HAZARD DATA continued:**

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

**Emergency and First Aid Procedures:** **If in eyes:** Hold eye open and rinse slowly and gently with water for at least 15-20 minutes. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. **If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

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

**Steps To Be Taken In Case Material Is Released Or Spilled:** Caution. Floors may become slippery. Wear appropriate protective gear and respiratory protection where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers of recovery or disposal. Keep spill out of sewers and open bodies of water.

**Waste Disposal Method:** Dispose of in compliance with all federal, state and local laws and regulations. Incineration is the preferred method.

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

**Other Precautions:** Store in original container in areas inaccessible to children. Open dumping is prohibited Do not reuse empty container. 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**

**Ventilation:** In processes where mists or vapors must be generated, proper ventilation must be provided in accordance with good ventilation practices. **Respiratory Protection (Specify Type):** In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls. **Protective Gloves:** Rubber or neoprene, when needed, to prevent skin contact with concentrate. **Eye Protection:** Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions. **Other Protective Clothing or Equipment:** Eye wash; safety shower, protective clothing (long sleeves, coveralls or other, as appropriate), when needed to prevent skin contact with concentrate. **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 **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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