MATERIAL SAFETY DATA SHEET

EPA Reg. No. 47371-131-1658

EPA Est. No. 1658-MO-1

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

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (527N-92A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: ARSENAL RE-JUV-NAL Date Prepared: May 8, 2009 (version 2)

302 North Fourth Street Address: 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;	ACGIH	OTHER LIMITS			
Common Name(s)	CAS#	OSHA PEL	TLY	RECOMMENDED	%
Didecyl dimethyl ammonium chloride	7173-51-5	not established	N/A	N/A	2.54
n-Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%) dimethyl	8001-54-5	not established	N/A	N/A	1.69
benzyl ammonium chloride					
Alcohols, C ₉₋₁₁ , ethoxylated	68439-46-3	not established	N/A	N/A	
Edtate Disodium	139-33-3	not established	N/A	N/A	
Dejonized water	7732-18-5	none	N/A	N/A	

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 (%):

Vapor Density (AIR = 1): Solubility in Water:

Evaporation Rate (ethyl ether = 1): slower than 1 0.6 complete Appearance and Odor:

clear, reddish-orange liquid; floral odor

94.7

pH of concentrate: 7.2 - 8.2

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flammable Limits: LEL = Not applicable Flash point: >200°F (Tag Closed Cup) 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 Eye? Yes Skin? yes Ingestion? yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

 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 = NoSigns 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.

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*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 rinso 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. Ingestion: If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person. 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. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock. Persistent convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

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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