

**MATERIAL SAFETY DATA SHEET**

**NFPA RATING:** Health = 1 Flammability = 0 Reactivity = 0  
**HMS RATING:** Health = /1 Flammability = 0 Reactivity = 0

**SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (#0771)**

**Manufacturer's Name:** HILLYARD INDUSTRIES      **Product Name:** ARSENAL SUPER SHINE-ALL CONCENTRATE

**Address:** 302 North Fourth Street      **Date Prepared:** October 3, 1997  
 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. 2303)

**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.	---
Tall oil soap, potassium	61790-44-1	not established	not established	N.A.	---
Ammonium parath sulfate	67762-19-0	not established	not established	N.A.	---
Triethanolamine(1)	102-71-6	not established	5 mg/m <sup>3</sup>	N.A.	---

(1) Regulated in FL., MA., PA., RI.

**SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS**

**Boiling Point:** 743mmHg 205°F      **Specific Gravity (H<sub>2</sub>O = 1):** 25°C = 1.00 & 39°C = 1.00  
**Vapor Pressure (mm Hg.):** 17.6      **Percent Volatile by Volume (%):** 87%  
**Vapor Density (AIR = 1):** 0.6      **Evaporation Rate (ethyl ether = 1):** Slower than 1  
**Solubility in Water:** Complete      **Appearance and Odor:** light amber liquid, Sassafras odor  
**pH (concentrate) =** 9.0-9.3

**SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**

**Flash point:** None (T.C.C.)      **Flammable Limits:** LEL = N.A.      UEL = N.A.  
**Extinguishing Media:** Water  
**Special Fire Fighting Procedures:** None.  
**Unusual Fire and Explosion Hazards:** None known to Hillyard Industries.

**SECTION V -- PHYSICAL HAZARDS**

**Stability:** Stable      **Conditions to Avoid:** N.A.  
**Incompatibility (Materials to Avoid):** None of which we have knowledge.  
**Hazardous Decomposition Products or Byproducts:** As with any organic materials, combustion will produce carbon dioxide and probably carbon monoxide.  
**Hazardous Polymerization:** Will not occur      **Conditions to Avoid:** None known to Hillyard Ind.

**SECTION VI -- HEALTH HAZARD DATA**

**Routes of entry:** Inhalation? No      Skin? No      Ingestion? No

**SECTION VI -- HEALTH HAZARD DATA (continued)**

**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. Primary Irritation test on the concentrate per the Federal Hazardous Substance Act showed the concentrated product was a primary skin irritant and an eye irritant.

2. None known to manufacturer.

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:** May cause irritation to skin and eyes.

**Medical Conditions Generally Aggravated by Exposure:** Open cuts and sores may be irritated by contact.

**Emergency and First Aid Procedures:** In case of contact with eyes or skin, flush with plenty of water for 15 minutes. Remove contaminated clothing. Call a physician if irritation persists. Wash clothing before reuse. If swallowed give water; may cause diarrhea; call physician

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

**Steps To Be Taken In Case Material Is Released Or Spilled:** Rinse area with water and pick up with wet vac or mop.

**Waste Disposal Method:** Dispose of in accordance with state or local regulations.

**Precautions To Be Taken In Handling And Storing:** Not applicable.

**Other Precautions:** Do not dispose of in storm drains or streams.

**SECTION VIII -- CONTROL MEASURES:**

**Respiratory Protection (Specify Type):** Not normally required.

**Ventilation:**

**Local Exhaust =** Normally adequate **Mechanical (General) =** Recommended **Special =** N.A. **Other =** N.A.

**Protective Gloves:** None required with normal use. **Eye Protection:** Splash goggles where eye contact is likely.

**Other Protective Clothing or Equipment:** Not normally required.

**Work / Hygienic Practices:** Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling; wash clothing before reuse.

**SECTION IX - TRANSPORTATION INFORMATION:**

**Applicable regulations:** DOT = 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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