

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 (#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. 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.	---
Tall oil soap, potassium	61790-44-1	not established	not established	N.A.	---
Ammonium pareth sulfate	67762-19-0	not established	not established	N.A.	---
Triethanolamine(1)	102-71-6	not established	5 mg/m ³	N.A.	---
(1) Regulated in FL., MA., PA., RI.					

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 743mmHg 205°F **Specific Gravity (H₂O = 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**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.

SECTION VI -- HEALTH HAZARD DATA (continued)

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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