

## MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 0 Flammability = 0 Reactivity = 0  
 MIS RATING: Health = /0 Flammability = 0 Reactivity = 0

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

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: ARSENAL SUPER SHINE-ALL  
 CONCENTRATE Ready To Use

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

Date Prepared: October 3, 1997

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.	---

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

## SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 743 mmHg 205°F Specific Gravity (H<sub>2</sub>O = 1): 25°C = 1.00 & 39°C = 1.00  
 Vapor Pressure (mm Hg.): 17.5 Percent Volatile by Volume (%): 99.81%  
 Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): Slower than 1  
 Solubility in Water: Complete Appearance and Odor: Very light amber liquid, Sassafras odor  
 pH (concentrate) = 7.5-8.5 Diluted 1:128 with water

## 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. Diluted product is not expected to be a Primary Irritant per the Federal Hazardous Substance Act; eye exposure to diluted material may cause mild irritation
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. Call a physician if irritation persists. 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:** None required with normal use.

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

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

**DISCLAIMER OF WARRANTIES**

**NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.**

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

**THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.**