

MATERIAL SAFETY DATA SHEET

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

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

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (470N-51A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: ARSENAL VANILLA AIR FRESHENER

Address: 302 North Fourth Street

Date Prepared: August 23, 1996

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	%
Isopropyl alcohol (1) (not strong acid process)	67-63-0	400 ppm	400 ppm	N/A	5-10
Water	7732-18-5	N/A	N/A	N/A	--
Octyl phenoxy polyethoxy ethanol	9036-19-5	N/A	N/A	N/A	--
Vanilla perfume	mixture unknown to Hillyard	N/A	N/A	N/A	--

(1) Regulated by OSHA and the following states: CT, FL, IL, LA, MA, NJ, PA, RI
VOS = 0.81 lbs./gallon

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: corr. 197°F **Specific Gravity (H2O = 1):** 25°C = 1.00 & 39°C = 1.00
Vapor Pressure (mm Hg.): 18.2 **Percent Volatile by Volume (%):** 94%
Vapor Density (AIR = 1): 0.7 **Evaporation Rate (ethyl ether = 1):** slower than 1
Solubility in Water : complete **Appearance and Odor:** milky liquid; vanilla odor
pH (concentrate) = 6.8

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: 106°F (Tag Closed Cup) corrected **Flammable Limits:** LEL = 1.9% UEL = N/A (mixture)
Extinguishing Media: Water spray, carbon dioxide, dry foam
Special Fire Fighting Procedures: Respiratory protection required for fire fighting personnel. Use water spray to cool fire exposed surfaces and to protect personnel.
Unusual Fire and Explosion Hazards: None known to Hillyard Industries

SECTION V -- PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** Keep away from heat or open flame
Incompatibility (Materials to Avoid): Strong oxidizing material and acids
Hazardous Decomposition Products or Byproducts: None known to Hillyard Industries
Hazardous Polymerization: Will not occur **Conditions to Avoid:** None known

SECTION VI -- HEALTH HAZARD DATA

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

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Concentrate is an eye irritant but not a skin irritant per FHSA Method 16 CFR 1500. Not acutely toxic (oral) to laboratory rats at 5 g/kg per upper limit testing. Acute inhalation - 1 Hour Toxic Limit test - not toxic at nominal concentration of at least 23.5 mg/l.

2. None known to Hillyard Industries.

Chemical listed as Carcinogen or Potential Carcinogen:

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 or equal to 0.1%.

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SECTION VI – HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Prolonged exposure to fine fog mist may cause nose and throat irritation. Concentrate is an eye irritant.

Medical Conditions Generally Aggravated by Exposure: None known to Hillyard Industries

Emergency and First Aid Procedures: Inhalation - If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. For eyes get medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb large spills with floor dry material. Small spills: Flush with water and pick up with mop.

Waste Disposal Method: . Dispose of contaminated absorbent, container, and unused contents in accordance with federal, state, and local regulations. Since product is an aqueous solution containing less than 24% alcohol and with a pH of less than 12.5 and greater than 2, it would not be considered a federal hazardous waste per EPA regulations (40 CFR 261). Do not dispose of in storm drains or streams.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Since empty packages retain product residue, follow label warnings even after package is empty.

Other Precautions: Reports have associated repeated and prolonged occupational overexposure to solvent with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. **USE ONLY WITH ADEQUATE VENTILATION.** Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. Close container after each use. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. If spilled, contain spilled material and remove with inert absorbent. Keep away from heat or open flame. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII – CONTROL MEASURES:

Respiratory Protection (Specify Type): If you experience eye watering, headache, dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. For fogging use appropriate NIOSH or MSHA approved respirator.

Ventilation: Recommend at least 5 CFM

Local Exhaust = N/A **Mechanical (General) =** Recommended **Special =** N/A **Other =** N/A

Protective Gloves: None required **Eye Protection:** Splash goggles if risk of contact.

Other Protective Clothing or Equipment: None required

Work / Hygienic Practices: Wash thoroughly after handling. Do not spray on food or foodstuffs.

SECTION IX - TRANSPORTATION INFORMATION:

Applicable regulations: CFR = no, IMCO = yes, IATA = yes

Proper shipping name for air and foreign water: Flammable Liquid, n.o.s. (Isopropyl alcohol), 3, UN1993, III

Proper shipping name for U.S. Highway: Cleaning compound

UN No.: not applicable for highway **Limited Qty.:** not applicable **Hazard class:** not applicable for highway

Labels required: not required for highway **DOT Exception:** not applicable

EPA Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable.

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