

MATERIAL SAFETY DATA SHEET

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

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

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0981A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: 450 GYM FINISH

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

Date Prepared: March 23, 2006

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	%
Petroleum distillate (Stoddard Solvent) ⁽¹⁾	8052-41-3	100 ppm	100 ppm	N/A	25-30
Aliphatic hydrocarbon petroleum naphtha	64742-47-8	100 ppm*	100 ppm*	N/A	12-17
Petroleum distillate	64742-95-6	100 ppm*	100 ppm*	N/A	1-5
Urethane alkyd resin	68514-58-9	not established	not established	N/A	---
Uralkyd resin (NJ & PA trade secret)	41-0177680-5000345P	not established	not established	N/A	---

(1) Regulated by OSHA and the following states: FL, IL, LA, MA, NJ, PA, RI

* Not established for this CAS #; use Stoddard solvent (CAS #8052-41-3) for PEL and TLV.

V.O.C. = Less than 450 gm./l.; V.O.S. = 3.69 lbs./gal.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 335°F **Specific Gravity (H₂O = 1):** 25°C = 0.89 & 39°C = 0.89

Vapor Pressure (mm Hg.): 2.8 **Percent Volatile by Volume (%):** 49.6

Vapor Density (AIR = 1): 4.8 **Evaporation Rate (ethyl ether = 1):** slower than 1

Solubility in Water: negligible

Appearance and Odor: Clear, light amber liquid; mineral spirit odor

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: 100°F min. (Tag Closed Cup) **Flammable Limits:** LEL = 0.9 UEL = no data

Extinguishing Media: Flammable Class II: Use foam, carbon dioxide, dry chemical fire fighting apparatus.

Special Fire Fighting Procedures: Full protective equipment including self-contained breathing apparatus. Water may be used to cool containers to prevent possible pressure buildup and autoignition or explosion when exposed to extreme heat. Notify authorities if liquid enters sewer and public waters. Dike fire control water for later disposal (see Section VII).

Unusual Fire and Explosion Hazards: Keep container closed and isolated from heat, electrical equipment, sparks and flame. Liquid runoff to sewers may create fire/explosion hazard. Vapors may accumulate in confined spaces such as sewers, pits or sumps or inadequately ventilated areas. Heat or fire may cause container to explode. Never weld or use cutting torch on or near package.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** Elevated temperatures

Incompatibility (Materials to Avoid): Avoid contact with strong acids and strong oxidizing agents.

Hazardous Decomposition Products or Byproducts: When exposed to fire, produces organic acids, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur **Conditions to Avoid:** None known to Hillyard

SECTION VI -- HEALTH HAZARD DATA

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

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Causes skin, nose and throat irritation. Product is primary skin irritant per Federal Hazardous Substance Act, Code of Federal Regulations 15, chapter IIc, paragraph 1500.41. It is not an eye irritant per FHSA, CFR 15, chapter. IIc, paragraph 1500.42.

2. May cause defatting of skin and dermatitis. Prolonged contact with skin may produce skin corrosion. Harmful if inhaled. Chronic overexposure leads to central nervous system depression and permanent brain and nervous system damage.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No **I.A.R.C. Monographs =** No **OSHA =** No

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Excess inhalation may irritate nose and throat. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea; however, product did not induce mortality following oral administration at 5.0 g/kg.

Medical Conditions Generally Aggravated by Exposure: Skin problems such as industrial dermatitis. Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be adversely affected by exposure to any vapor or airborne particulate matter. Acute inhalation studies of product at 17.1 mg/l. for 1 hour produced no abnormalities.

Emergency and First Aid Procedures: In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean contaminated shoes. If affected by inhalation of vapor, remove to fresh air. If swallowed get medical attention; consult a physician or poison control center immediately.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Eliminate sources of ignition (flames, hot surfaces; electric, static or friction sparks); ventilate area; avoid breathing of vapors; absorb with floor dry or similar inert material. Sweep or scrape up and put in appropriate container. Do not let spilled or leaking material enter watercourse. Notify authorities if liquid enters nearby water intakes. Notify local health and wildlife officials. Do not smoke when working with product.

Waste Disposal Method: Dispose of in accordance with local, county, state and federal regulations. Incinerate regulated quantities in approved facility; do not incinerate closed container.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Empty container may retain hazardous residue and explosive vapors; do not pressurize, cut, weld, braze, solder, drill or grind on or near container. Follow label warnings until container is thoroughly cleaned or destroyed.

Other Precautions: USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA Standard 29 CFR 1910.94 for technical guidelines on keeping air contamination below acceptable exposure limits. Avoid contact with eyes, skin and clothing. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of EPA Sec. 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 Code of Federal Regulations - Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits.

Ventilation: At least 10 air chgs./hr. recommended

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

Protective Gloves: Impervious rubber gloves **Eye Protection:** None required

Other Protective Clothing or Equipment: Non-absorbent protective clothing. If you experience eye watering, headache or dizziness, increase fresh air, wear respiratory protection or leave the area.

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

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

Proper shipping name for air and foreign water: Paint, 3, UN1263, III

Proper shipping name for highway: Varnish;

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

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