

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 (0691A)****Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** PRO-LINE TUF SEAL**Address:** 302 North Fourth Street**Date Prepared:** July 20, 1995

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)<http://www.hillyard.com>**SECTION II -- INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:****CAS#****OSHA PEL****ACGIH****TLV****OTHER LIMITS****RECOMMENDED****%****Common Name(s)**

Aliphatic Hydrocarbon Petroleum Naphtha

64742-88-7

100 ppm *

100 ppm *

N/A

27-32

Distillate (Petroleum) Hydrotreated Light

64742-47-8

100 ppm *

100 ppm *

N/A

31-36

Urethane resin

68188-21-6

not

not

N/A

34-39

applicable

applicable

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

VOC = 521 gm/l.; VOS = 4.34 lbs./gallon

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS**Boiling** corr. 326°F**Specific Gravity (H₂O = 1):**

0.86 39°F= 0.86

Point:

25°F=

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

65

(%):**Vapor Density (AIR = 1):** 4.8**Evaporation Rate (ethyl ether = 1):** slower than 1**Solubility in Water** negligible**Appearance and**

transparent amber liquid; solvent odor

:**Odor:****SECTION IV -- FIRE AND EXPLOSION HAZARD DATA****Flash** 101°F minimum (Tag Closed**Flammable Limits:** LEL 1.0 UEL = no**point:** Cup)

=

data

Extinguishing Media: Flammable Class II: Foam, carbon dioxide, dry chemical, water fog.**Special Fire Fighting Procedures:** Full protective equipment including self-contained breathing apparatus. If water is used fog nozzles are preferable. Water may be used to cool containers.**Unusual Fire and Explosion Hazards:** Keep container closed and isolated from heat, electrical equipment, sparks and flame. 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. Avoid water.**Hazardous Decomposition Products or Byproducts:** None under normal conditions. Thermal decomposition or combustion may produce organic acids, carbon dioxide and carbon monoxide.**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** N/A**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:**

Yes

Skin? Yes

Ingestion? Yes

Inhalation?

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Causes eye and skin irritation. Harmful or fatal if swallowed. Causes nose and throat irritation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
2. Reports have associated repeated and prolonged occupational overexposure to solvent with 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

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

HEALTH HAZARD DATA continued

Signs and Symptoms of Exposure: Contact causes eye and skin irritation. May cause nose and throat irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Vapor harmful - overexposure may affect the brain or nervous system causing dizziness, headache or nausea.

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.

Emergency and First Aid Procedures: 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 eye contact immediately flush with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, do not induce vomiting. Call a physician.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: If spilled, contain spilled material and remove with inert absorbent and non-sparking tools. Remove all sources of ignition (flames, hot surfaces; electric, static or friction sparks). Avoid breathing vapors. Ventilate area. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed. Keep container closed when not in use. Do not store at temperatures over 100°F. 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. Do not pick up solution with automatic scrubber or wet pick-up vacuum.

Waste Disposal Method: Dispose of contaminated absorbent, container and unused contents in accordance with federal, state and local regulations. Incinerate regulated quantities in an approved facility; do not incinerate closed container. EPA Hazardous Waste (per RCRA Classification): Ignitable Liquid (40 CFR 261.21).

Precautions To Be Taken In Handling And Storing: Keep containers 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: Keep away from heat and flame. 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.** If you experience eye watering, headache or 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. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally. 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): Wear appropriate, properly fitted respirator (NIOSH and MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits.

Ventilation: At least 10 air changes per hour recommended.

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

Protective Gloves: Solvent impervious rubber gloves **Eye Protection:** Solvent resistant eyewear with splash guards

Other Protective Clothing or Equipment: Solvent impermeable clothing

Work / Hygienic Practices: Wash clothing before reuse. Thoroughly clean contaminated shoes.

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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