

# Material Safety Data Sheet

HMIS Rating: Health = 3, Flammability = 2, Reactivity = 0

#3670

## SECTION I — IDENTITY AND MANUFACTURER'S INFORMATION (#0578A)

Manufacturer's Name	HILLYARD CHEMICAL COMPANY	Product Name	PRO-LINE TUF SEAL
Address	302 North Fourth Street St. Joseph, MO 64502	Date Prepared	April 9, 1990
Emergency Telephone No And Other Information Calls	(816) 233-1321	Prepared by Regulatory Affairs Department	

## SECTION II — HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s))	CAS #'s	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Petroleum distillates	64742-88-7	100 ppm*	100 ppm*	N/A	45-50
Urethane resin	68514-58-9	none est.	none est.	N/A	---

\*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 Point	corr.	326°F	Specific Gravity (H <sub>2</sub> O = 1)	38°C 25°C	0.855 0.86
Vapor Pressure (mm Hg.)		2.83	Percent Volatile By Volume (%)	avg.	64.65
Vapor Density (AIR = 1)		4.83	Evaporation Rate	(ethyl ether = 1)	slower than 1
Solubility in Water		negligible	Appearance and Odor	transparent amber liquid; solvent odor	

## SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
107°F min. (T.C.C.)		0.90	no 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 container.

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 Unstable  Conditions to Avoid elevated temperatures  
Stable

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 May Occur  Conditions To Avoid N/A  
Will Not Occur

**SECTION VI - HEALTH HAZARD DATA**

Route(s) of Entry: Inhalation? yes Skin? yes Ingestion? yes

Health Hazards (1. Acute and 2. Chronic)  
1. Eye irritant; can cause skin irritation; can defat skin and lead to dermatitis.  
2. Chronic overexposure leads to central nervous system depression and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Chemical Listed as Carcinogen or Potential Carcinogen: National Toxicology Program Yes  No  I.A.R.C. Monographs Yes  No  OSHA Yes  No

Signs and Symptoms of Exposure  
Overexposure can lead to upper respiratory irritation; swallowing can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Medical Conditions  
Generally Aggravated by Exposure  
Pre-existing eye, skin, liver, kidney and respiratory disorders.

Emergency and First Aid Procedures  
In case of eye contact flush immediately with plenty of water for at least 15 minutes and get medical attention. Skin: wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash clothes before reuse. Inhalation: remove to fresh air. If swallowed do not induce vomiting. GET MEDICAL ATTENTION.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps To Be Taken In Case Material Is Released Or Spilled  
Remove all sources of ignition (flames, hot surfaces, and electric, static or friction sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

Waste Disposal Method  
Dispose of in accordance with state or local regulations. EPA Hazardous Waste Classification: Ignitable Liquid. Incinerate in approved facility. Do not incinerate closed container.

Precautions To Be Taken In Handling And Storing  
Keep container closed when not in use. USE WITH ADEQUATE VENTILATION. Avoid breathing of vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying.

Other Precautions \*\*  
Since empty packages retain product residue, follow label warnings even after package is empty. \*RESPIRATORY PROTECTION (continued): Follow respirator manufacturer's directions for respirator use.

**SECTION VIII - CONTROL MEASURES**

Respiratory Protection (Specify Type) Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) during use of product until vapor & mists are exhausted, unless monitoring demonstrates  
Ventilation: at least 10 air chgs/hr. recommended  
Local Exhaust: recommended  
Mechanical (General): recommended  
Special: N/A  
Other: N/A  
vapor & mist levels are below applicable limits.  
Protective Gloves: impervious rubber gloves  
Eye Protection: chemical goggles  
\*(see above)  
Other Protective Clothing Or Equipment: protective clothing such as uniforms, coveralls  
Work/Hygienic Practices: Wash contaminated clothing before reuse (including shoes).

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\*\*This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Sec. 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.