

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 (522N-60A)****Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** PENETRATING SEAL NO. 21**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** November 25, 2008 (Version 3)**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	8052-41-3 & 64742-88-7	100 ppm *	100 ppm *	N/A	53 -58
Urethane Resins	68514-58-9	Not established	Not established	N/A	---
Tung oil	67700-70-3	Not established	Not established	N/A	---

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

V.O.C. = 550 gm/l.; V.O.S. = 4.6 lbs/gal.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 200°F	Specific Gravity (H₂O= 1): 25°C = 0.85 & 39°C = 0.84
Vapor Pressure (mm Hg.): 2.8	Percent Volatile by Volume (%): 71.0
Vapor Density (AIR = 1): 4.8	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water : negligible	Appearance and Odor: amber-brown liquid; petroleum distillate odor

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**Flash point:** 105°F min.(Tag Closed Cup) **Flammable Limits:** LEL = 0.9% UEL = No data**Extinguishing Media:** Carbon dioxide, dry chemical, foam. Use NFPA Class B extinguishers.**Special Fire Fighting Procedures:** Treat as any petroleum solvent fire. Avoid spreading liquid and fire by water. Wear full protective equipment including self-contained breathing apparatus.**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.**Hazardous Decomposition Products or Byproducts:** None under normal conditions. Thermal decomposition 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:** 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.

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%.

SECTION VI -- HEALTH HAZARD DATA cont.

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 and respiratory disorders.

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 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 physician immediately.

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; electric, static or friction sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools. 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 in accordance with state or local regulations. Incinerate in approved facility; do not incinerate closed container. Do not dispose of in storm drains or waterways.

Precautions To Be Taken In Handling And Storing: Since empty packages retain product residue, follow label warnings even after package is empty. Keep container closed when not in use. Do not store at temperatures above 110°F. Notice: Saw dust from freshly sanded floors or dust from wood floors that have been abraded between coats will spontaneously catch fire if improperly discarded. Immediately after abrading or sanding wood floors, place dust waste in a sealed, water-filled metal container and immediately remove from building. Notice: Rags or applicators soaked in a combustible liquid will spontaneously catch fire if improperly discarded. Immediately after using rags or applicators soaked in a combustible liquid, place waste in a sealed, water-filled metal container and immediately remove from building.

Other Precautions: 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, or 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 or 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:	Impervious rubber gloves	Eye Protection:			Chemical safety goggles		

Other Protective Clothing or Equipment: Protective clothing such as uniforms, coveralls.

Work / Hygienic Practices: Wash contaminated clothing before reuse (including 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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