

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 (512N-60B)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: 550 SEAL II

Address: 302 North Fourth Street

Date Prepared: February 7, 2003

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. 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	%
Stoddard Solvent (1)	8052-41-3	100 ppm	100ppm	N/A	35-40
Aliphatic hydrocarbon petroleum naphtha	64742-47-8	100 ppm*	100 ppm*	N/A	23-28
Urethane resin	68410-53-7	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 550 gm./l.; V.O.C. = 4.5 lbs./gal.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 335°F

Specific Gravity (H₂O = 1): 25°C = 0.86 & 39°C = 0.86

Vapor Pressure (mm Hg.): 2.8

Percent Volatile by Volume (%): 63

Vapor Density (AIR = 1): 4.8

Evaporation Rate (ethyl ether = 1): slower than 1

Solubility in Water: negligible

Appearance and Odor: Clear-amber liquid with mineral spirit odor

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: 105°F (Tag Closed Cup)

Flammable Limits: LEL = 1.0 UEL = 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: 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: When exposed to fire produces organic acids, carbon dioxide and carbon monoxide.

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? Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Causes eye, nose and throat irritation. Prolonged overexposure can cause skin irritation.

2. Chronic overexposure leads to central nervous system depression and permanent brain and nervous system damage. Prolonged overexposure can defat skin and lead to dermatitis.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No

I.A.R.C. Monographs = No

OSHA = No

SECTION VI -- HEALTH HAZARD DATA continued

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: 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. Pre-existing eye, skin and respiratory disorders.

Emergency and First Aid Procedures: If swallowed DO NOT INDUCE VOMITING; consult physician or poison control center immediately; treat symptomatically. If affected by inhalation of vapor remove to fresh air. If irritation persists get medical attention. 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.

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. EPA Hazardous Waste Classification: Ignitable Liquid. 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.

Other Precautions: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. 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. 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: Good engineering practices recommend 10 air changes/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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