

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 3 Flammability = 2 Reactivity = 0
HMIS RATING: Health = / 3 Flammability = 2 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (527N-63B)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** NSB-40**Address:** 302 North Fourth Street**Date Prepared:** March 28, 2005

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department**Emergency Telephone:** (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)**SECTION II – INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
d-Limonene	5989-27-5	not established	not established	N.A.	35-40
Dipropylene Glycol Monomethyl Ether (1)	34590-94-8	100 ppm	100 ppm	STEL 150	8-12
Water	7732-18-5	none	none	N.A.	---
Linear Primary Alcohol Ethoxylate	68439-46-3	not established	not established	N.A.	---
Ethylenediaminetetraacetic acid Tetrasodium Salt	64-02-8	not established	not established	N.A.	---

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

VOC (Concentrate) = 49.07%; Diluted 11 oz./gallon = 3.9%

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 739 mm Hg 216°F **Specific Gravity (H₂O = 1):** 25°C = 0.932 & 39°C = 0.932
Vapor Pressure (mm Hg.): 14.8 **Percent Volatile by Volume (%):** 83.65%
Vapor Density (AIR = 1): 3.1 **Evaporation Rate (ethyl ether = 1):** Slower than 1
Solubility in Water: complete **Appearance and Odor:** Clear-hazy, orange liquid; citrus fragrance
pH (concentrate) = 7-8

SECTION IV – FIRE AND EXPLOSION HAZARD DATA**Flash point:** 123°F (T.C.C.) **Flammable Limits:** LEL = 1% UEL = N.A.**Extinguishing Media:** Alcohol foam, dry chemical, carbon dioxide**Special Fire Fighting Procedures:** Water spray may be ineffective, but may be used to cool closed containers. Class II fire procedures; wear NIOSH approved respirator and full protective gear. Also handle like a corrosive liquid.**Unusual Fire and Explosion Hazards:** None known to Hillyard Industries**SECTION V – PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** Stable under normal storage conditions**Incompatibility (Materials to Avoid):** oxidizing material**Hazardous Decomposition Products or Byproducts:** carbon monoxide from burning**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** N/A**SECTION VI – HEALTH HAZARD DATA****Routes of entry:** Inhalation? N/A Skin? N/A Ingestion? N/A**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. Testing showed product concentrate was a primary eye and skin irritant. Causes eye and skin burns. Product was not acutely orally toxic at 5 gm./kg. Not acutely toxic by inhalation at nominal concentration of 29.7 mg/L. nor actual concentration of 12.48 mg./L. Prolonged overexposure to dipropylene glycol methyl ether may cause respiratory tract irritation. 2. None known to Hillyard Industries.

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%.

Signs and Symptoms of Exposure: Eye and skin irritant; prolonged contact may cause severe skin and eye irritation.

Ingestion can cause nausea, vomiting and gastro intestinal irritation. Ingestion may cause irritation. Some individuals may be sensitive to ingredients in this product.

Medical Conditions Generally Aggravated by Exposure: Open cuts and sores may be irritated by contact. Some individuals may be sensitive to ingredients in this product.

SECTION VI – HEALTH HAZARD DATA continued.

Emergency and First Aid Procedures: In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. Get prompt medical attention. Remove and wash all contaminated clothing before reuse. If swallowed, DO NOT induce vomiting; Get medical attention immediately. Inhalation - Remove person to fresh air. If breathing difficulty persists or occurs later, call a physician.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb large spills with floor dry material. Small spills should be flushed with water and picked up with mop.

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: 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 120°F. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not take internally. Keep away from heat and flame. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, sparks, flames, or other sources of ignition. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as Solvent or Painters' Syndrome). Prevent buildup 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. If spilled, contain spilled material and remove with inert absorbent (do not use clay absorbent). Dispose of contaminated absorbent, container, and unused contents in accordance with federal, state, and local regulations. Use solvent-resistant eyewear with splash guards. Solvent-impermeable gloves, apron, or clothing, and boots are recommended to prevent skin contact.

Other Precautions: Do not dispose of in storm drains or streams. 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 40 CFR Part 372.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): Not normally required with adequate ventilation.

Ventilation:

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

Protective Gloves: Impervious gloves (neoprene or rubber) suggested. **Eye Protection:** Splash goggles or approved eye protection to safeguard against potential eye contact, irritation, or injury are recommended.

Other Protective Clothing or Equipment: Handle as a corrosive, combustible liquid. When splashing is a concern use protective clothing.

Work / Hygienic Practices: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling; wash clothing before reuse. Completely submerge contaminated clothing or other materials in water prior to drying.

SECTION IX – TRANSPORTATION INFORMATION

APPLICABLE REGULATIONS: 49CFR Highway = NO; IMCO = Yes; IATA = Yes

U.S. Highway Shipping Description: (Gallon cases, 5 and 55 gallon drums) =Not applicable

UN No: Not applicable **Limited Qty.:** not applicable **Hazard class:** 3

Labels required: Flammable **DOT Exception:** not applicable

Proper shipping name for air and foreign water: Flammable liquid, n.o.s. (d-Limonene),3, UN1993, III

EPA Hazardous waste characteristics: Ignitability=Applicable; Corrosivity =Not applicable; Reactivity =Not applicable.

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