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MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 2 Reactivity = 0
HMIS RATING: Health = 1 Flammability = 2 Reactivity = 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION (482N-74G)

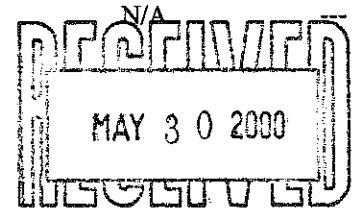
Manufacturer's Name: HILLYARD INDUSTRIES Product Name: BONNET CARPET CLEANER
Address: 302 North Fourth Street Date Prepared: October 8, 1997
St. Joseph, MO 64501 Prepared by: Regulatory Affairs Department

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)

SECTION II - INGREDIENTS/IDENTITY INFORMATION

Table with 6 columns: Components, CAS#, OSHA PEL, ACGIH TLV, OTHER LIMITS RECOMMENDED, %. Rows include Isopropyl Alcohol, Propylene Glycol Monomethyl Ether, Water, Sulfated Ethoxylated Alcohol, and Propylene Glycol N-Propyl Ether.

(1)and (2) Regulated by OSHA and the following states: CA, FL, IL, OH, TX.
VOS = 2.2 lbs./gal. for concentrate; Diluted VOS = 2.7%



SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 202°F Specific Gravity (H2O = 1): 25°C = 0.98
Vapor Pressure (mm Hg.): 17.5 Percent Volatile by Volume (%): 97.2
Vapor Density (AIR = 1): 1.5 Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water : complete Appearance and Odor: water-white liquid; green apple fragrance
pH (concentrate) = 6.9 & 39°C = not determined

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: 105°F (T.C.C.) minimum Flammable Limits: LEL = 1.1% UEL = N/A (mixture)
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. Do not expose to heat or store above 120°F (49°C). Do not spray near ignition sources such as heat, sparks, open flames, etc.

SECTION V - PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: Heat, sparks and open flame
Incompatibility (Materials to Avoid): Strong oxidizing materials
Hazardous Decomposition Products or Byproducts: As with any organic material, combustion will produce carbon dioxide, carbon monoxide, water and unidentified organic compounds.
Hazardous Polymerization: Will not occur Conditions to Avoid: None known

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Product is expected to be a primary skin irritant per Federal Hazardous Substance Act. May cause eye irritation. Acute oral limit test is expected to produce no mortality at 5 gm./kg. Harmful if swallowed. A single brief (minutes) inhalation exposure is not likely to cause adverse effects. Prolonged overexposure may cause nose and throat irritation. Overexposure by inhalation may be anesthetic or narcotic effects. Notice: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. 2. None known by Hillyard Industries.

Handwritten notes: 05, 06, 10 and 03, 04, 08

SECTION VI – HEALTH HAZARD DATA continued

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No L.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: Overexposure may cause drowsiness, headache and uncoordination.

Medical Conditions Generally Aggravated by Exposure: None known by manufacturer.

Emergency and First Aid Procedures: If swallowed, get medical attention immediately. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. If irritation persists, get medical attention. Inhalation - If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

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. Follow label warnings until container is thoroughly cleaned or destroyed. Keep container closed when not in use. 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 away from heat, sparks and flames. Since empty packages retain product residue, follow label warnings even after packages are empty.

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. Spray away from face. 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): Ventilate to keep air below TLV. A NIOSH approved respirator for organic vapor should be worn if needed to keep level below TLV.

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: None required when used according to label directions.

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: 49 CFR= no; IMCO= yes; IATA= yes.

Proper shipping name for air and foreign water: Flammable Liquid, N.O.S. (Isopropyl alcohol), 3.3, UN 1993, III.

Proper shipping name for U.S. highway: Cleaning Compound

UN No.: not applicable for highway **Limited Qty.:** not applicable **Hazard Class =** not applicable

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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