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MATERIAL SAFETY DATA SHEET

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

HMS RATING: Health = 2 Flammability = 2 Reactivity = 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION (0387A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: KLEEN-UP SOLVENT

Address: 302 North Fourth Street
St. Joseph, MO 64501

Date Prepared: June 28, 1995

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. 303)

SECTION II - INGREDIENTS/IDENTITY INFORMATION

Components (Specific Chemical Identity: Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Aliphatic hydrocarbon petroleum naphtha	64742-88-7	100 ppm*	100 ppm*	not applicable	50-55
Petroleum naphtha	64742-95-6	100 ppm *	100 ppm*	not applicable	50-55

* Not established for this CAS #; use Stoddard solvent CAS #8052-41-3 for PEL and TLV. CAS #8052-41-3 is regulated by OSHA and the following states: FL, IL, LA, MA, NJ, PA, RI.
V. O. C. = 825 gm/l.

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SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 268-428°F Specific Gravity (H₂O = 1): 0.819
 Vapor Pressure (mm Hg): 3.8 Percent Volatile by Volume (%): 100%
 Vapor Density (AIR = 1): 4.5 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: negligible Appearance and Odor: thin, clear liquid; mineral spirit odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: 115°F (T.C.C.) average Flammable Limits: LEL = 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. 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. Causes eye and skin irritation. Harmful or fatal if swallowed. Causes nose and throat irritation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
2. Reports have associated repeated and prolonged occupational overexposure to solvent with 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 or equal to 0.1%.
Signs and Symptoms of Exposure: Contact causes eye and skin irritation. May cause nose and throat irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Vapor harmful - overexposure may affect the brain or nervous system causing dizziness, headache or nausea.
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.

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SECTION VI – HEALTH HAZARD DATA continued

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 immediately 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 a physician.

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. Do not cut, puncture or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed. Keep container closed when not in use. Do not store at temperatures over 100°F. 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 containers closed when not in use. Empty container may retain hazardous residue and explosive vapors; do not pressurize, cut, weld, braze, solder, drill or grind on or near container. Follow label warnings until container is thoroughly cleaned or destroyed.

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. 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 and 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: Solvent impervious rubber gloves

Eye Protection: Solvent resistant eyewear with splash guards

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: CFR = no IMCO = yes IATA = yes

Proper shipping name for air and foreign water: Paint related material, 3, UN1263, III

Proper shipping name for highway: Cleaning compound

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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