

**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 (0387A)**

**Manufacturer's Name:** HILLYARD INDUSTRIES

**Product Name:** KLEEN-UP SOLVENT

**Address:** 302 North Fourth Street

**Date Prepared:** June 7, 1994

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. 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.

**SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

**Boiling Point:** 268-428 °F

**Specific Gravity (H<sub>2</sub>O = 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. 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 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:** 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.

**Emergency and First Aid Procedures:** **INHALATION:** If affected by inhalation of vapor remove to fresh air. Restore breathing; treat symptomatically; consult physician. **EYES:** Flush immediately with large amounts of water for at least 15 minutes; take to a physician for medical treatment. **SKIN:** Wash affected areas with soap and water. Remove contaminated clothing; consult physician if irritation persists. **INGESTION: DO NOT INDUCE VOMITING:** consult physician or poison control center immediately; treat symptomatically.

**SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Eliminate sources of ignition (flames, hot surfaces; electric, static or friction sparks); ventilate area; avoid breathing of vapors; absorb with floor dry or similar inert material. Contain and remove with inert absorbent and non-sparking tools. 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.

**Waste Disposal Method:** Dispose of in accordance with local, county, state and federal regulations. Incinerate regulated quantities in approved facility; do not incinerate closed container

**Precautions To Be Taken In Handling And Storing:** Keep container 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:** 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 20 CFR 1910.94 for technical guidelines on keeping air contamination below acceptable exposure limits. Avoid contact with eyes, skin and clothing. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Sec. 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):** Ventilate to keep air conc. below 100 ppm on petroleum dist. Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits. Follow respirator mfr's directions for respirator use. If you experience eye watering, headache or dizziness, increase fresh air, wear respiratory protection or leave the area.

**Ventilation:** At least 10 air chgs/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

**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 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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