HILLYARD The Cleaning Resource®

SAFETY DATA SHEET

1. Identification

Product identifier KLEEN-UP SOLVENT

Other means of identification

SDS number 487N-27A
Product code HIL00437
Recommended use Floor Cleaner

Recommended restrictions Not to be used as Thinner Manufacturer/Importer/Supplier/Distributor information

Manufacturer Manufacturer

Company nameHILLYARD INDUSTRIESAddress302 North Fourth St.

St. Joseph, MO 64501

Contact person Regulatory Affairs

Telephone number (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

E-mail regulatoryaffairs@hillyard.com

Emergency telephone # (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure,

or accident involving chemicals.)

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2BGerm cell mutagenicityCategory 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

Category 1B

Category 1

Category 3

Specific target organ toxicity, repeated

exposure

Carcinogenicity

Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements

Environmental hazards



Signal word Danger

Hazard statementFlammable liquid and vapor. Causes skin irritation. Causes eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Causes damage to organs through

prolonged or repeated exposure. Toxic to aquatic life. Harmful to aquatic life with long lasting

effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Hazard(s) not otherwise classified (HNOC)

Supplemental information

 $\label{local/regional/national/international regulations.} Dispose of contents/container in accordance with local/regional/national/international regulations.$

None known.

NOTICE: Saw dust from freshly sanded floors or dust from wood floors that have been abraded between coats will spontaneously catch fire if improperly discarded. Immediately after abrading or sanding wood floors, place dust waste in a sealed, water-filled metal container and immediately remove from building.

NOTICE: Rags or applicators soaked in a combustible liquid will spontaneously catch fire if improperly discarded. Immediately after using rags or applicators soaked in a combustible liquid, place waste in a sealed, water-filled metal container and immediately remove from building. NOTICE: 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.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvent with permanent brain and nervous system damage. 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. 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.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Mineral Spirits		8052-41-3	60 - < 70
1,2,4-trimethylbenzene		95-63-6	20 - < 30
BENZENE, DIMETHYL		1330-20-7	1 - < 3
BENZENE,1-METHYLETHYL-		98-82-8	< 1
Other components below reportable le	vels		< 0.2

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contactTake off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Call a physician or poison control center immediately.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Exposed individuals may experience eye tearing, redness, and discomfort. Irritation of eyes and mucous membranes. Irritation of nose and throat. Skin irritation, May cause redness and pain, Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area, Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk, Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

SDS US

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100)
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Components	Туре	Value	
BENZENE, DIMETHYL (CAS 1330-20-7)	PEL	435 mg/m3	
,		100 ppm	
BENZENE,1-METHYLETHY L- (CAS 98-82-8)	PEL	245 mg/m3	
		50 ppm	
Mineral Spirits (CAS 8052-41-3)	PEL	2900 mg/m3	
,		500 ppm	
US. ACGIH Threshold Limit Values	.		
Components	Туре	Value	
BENZENE, DIMETHYL (CAS 1330-20-7)	STEL	150 ppm	
,	TWA	100 ppm	
BENZENE,1-METHYLETHY L- (CAS 98-82-8)	TWA	50 ppm	
Mineral Spirits (CAS 8052-41-3)	TWA	100 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
1,2,4-trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
,		25 ppm	
BENZENE,1-METHYLETHY L- (CAS 98-82-8)	TWA	245 mg/m3	
•		50 ppm	

Biological limit values

8052-41-3)

Mineral Spirits (CAS

ACCILI Dialogical E

Components	Value	Determinant	Specimen	Sampling Time
BENZENE, DIMETHYL (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

Ceiling

TWA

Exposure guidelines

US - California OELs: Skin designation

BENZENE,1-METHYLETHYL- (CAS 98-82-8)

Can be absorbed through the skin.

1800 mg/m3

350 mg/m3

^{* -} For sampling details, please see the source document.

US - Minnesota Haz Subs: Skin designation applies

BENZENE,1-METHYLETHYL- (CAS 98-82-8) Skin designation applies.

US - Tennessee OELs: Skin designation

BENZENE,1-METHYLETHYL- (CAS 98-82-8)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

BENZENE,1-METHYLETHYL- (CAS 98-82-8)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

BENZENE,1-METHYLETHYL- (CAS 98-82-8)

Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor

cartridge.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Thin, clear liquid

Physical state Liquid.
Form Liquid.
Color Colorless

Odor Mineral spirit odor
Odor threshold Not available
pH Not available
Melting point/freezing point Not available

Initial boiling point and boiling range

330 °F (165.56 °C)

Flash point 108.0 °F (42.2 °C) Tag Closed Cup

Evaporation rate < 1 (ethyl ether = 1)

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Explosive limit - upper (%)

Not available.

Vapor pressure

3.4 mm Hg

Vapor density 4.6 AIR=1

Relative density 0.8 at 77°F

Solubility(ies)

Solubility (water) Negligible

Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperature Not available

Decomposition temperature Not available

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Viscosity Not available

Other information

 Density
 6.66

 Percent volatile
 > 99 %

 VOC (Weight %)
 802 g/l

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents. Halogens.

Hazardous decomposition

products

Product

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes eye irritation.

Ingestion Expected to be a low ingestion hazard.

Species

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Irritation

Test Results

of nose and throat. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Narcotic effects.

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Product	Species	rest results
KLEEN-UP SOLVENT		
Acute		
Dermal		
LD50	Rabbit	44206.9336 mg/kg estimated
Inhalation		
LC50	Mouse	10052.9102 mg/l, 2 Hours estimated
	Rat	27979.0723 ppm, 48 Hours estimated
Oral		
LD50	Rat	83.9372 g/kg estimated
Components	Species	Test Results
1,2,4-trimethylbenzene (CA	S 95-63-6)	
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Inhalation		
LC50	Rat	> 2000 ppm, 48 Hours
Oral		
LD50	Rat	6 g/kg
BENZENE, DIMETHYL (CA	S 1330-20-7)	
Acute		
Dermal		
LD50	Rabbit	> 43 g/kg

Components	Species	Test Results
Inhalation		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
BENZENE,1-METHYLETH	IYL- (CAS 98-82-8)	
Acute		
Inhalation		
LC50	Mouse	2000 ppm, 7 Hours
		24.7 mg/l, 2 Hours
	Rat	8000 ppm, 4 Hours
Oral		
LD50	Rat	1400 mg/kg

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye

Causes eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

BENZENE, DIMETHYL (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

BENZENE,1-METHYLETHYL- (CAS 98-82-8) 2B Possibly carcinogenic to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Components in this product have been shown to cause birth defects and reproductive disorders in Reproductive toxicity

laboratory animals.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Prolonged inhalation may be harmful. **Aspiration hazard**

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Product		Species	Test Results
KLEEN-UP SOLVENT			
Aquatic			
Crustacea	EC50	Daphnia	2049.9253 mg/l, 48 hours estimated
Fish	LC50	Fish	94.5091 mg/l, 96 hours estimated

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Mineral Spirits 3.16 - 7.15

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not contaminate ponds, waterways or ditches with chemical or used container. If

discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

Not regulated as dangerous goods.

General information This material is regulated under IATA and IMDG regulations. Contact manufacturer for shipping

instructions.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910,1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

BENZENE, DIMETHYL (CAS 1330-20-7) Listed. BENZENE,1-METHYLETHYL- (CAS 98-82-8) Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

BENZENE, DIMETHYL (CAS 1330-20-7) BENZENE,1-METHYLETHYL- (CAS 98-82-8) Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

1.2.4-trimethylbenzene (CAS 95-63-6) BENZENE, DIMETHYL (CAS 1330-20-7) BENZENE,1-METHYLETHYL- (CAS 98-82-8)

Mineral Spirits (CAS 8052-41-3)

US. New Jersey Worker and Community Right-to-Know Act

1,2,4-trimethylbenzene (CAS 95-63-6) BENZENE, DIMETHYL (CAS 1330-20-7) BENZENE,1-METHYLETHYL- (CAS 98-82-8)

US. Pennsylvania Worker and Community Right-to-Know Law

1,2,4-trimethylbenzene (CAS 95-63-6) BENZENE, DIMETHYL (CAS 1330-20-7) BENZENE,1-METHYLETHYL- (CAS 98-82-8) Mineral Spirits (CAS 8052-41-3)

US. Rhode Island RTK

1.2.4-trimethylbenzene (CAS 95-63-6) BENZENE, DIMETHYL (CAS 1330-20-7) BENZENE,1-METHYLETHYL- (CAS 98-82-8)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

BENZENE,1-METHYLETHYL- (CAS 98-82-8) Listed: April 6, 2010

International Inventories

Country(s) or region On inventory (yes/no)* Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

05-13-2015 Issue date

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Health: 2* HMIS® ratings

Flammability: 3 Physical hazard: 0

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particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

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