

CUST341

HILLSBORO ELEMENTARY SCHOOLS

211 S.E. 12th Ave.  
HILLSBORO, OR 97123

MATERIAL SAFETY DATA SHEET CM 0189

## SECTION 1 -- PRODUCT AND PREPARATION INFORMATION

## PRODUCT INFORMATION

**IDENTITY (TRADE NAME):** SAFETY-KLEEN 105 SOLVENT

**SYNONYMS:** Mineral Spirits, Petroleum Distillates, Petroleum Naphtha, Stoddard Solvent

**SK PART NUMBER(S):** 6610, 661055

**FAMILY/CHEMICAL NAME:** Aliphatic Hydrocarbon

**PRODUCT USE:** Cleaning and degreasing metal parts.  
If this product is used in combination with other chemicals, refer to the Material Safety Data Sheets for those chemicals.

## 24-HOUR EMERGENCY TELEPHONE

These numbers are for emergency use only. If you desire non-emergency information about this product, please call a telephone number listed below.

## MEDICAL:

1-800-752-7869 (U.S.A.)

1-312-942-5969 (CANADA)

RUSH POISON CONTROL CENTER  
CHICAGO, ILLINOIS, U.S.A.

## TRANSPORTATION:

1-708-888-4660 (U.S.A.)

SAFETY-KLEEN ENVIRONMENT,  
HEALTH AND SAFETY DEPARTMENT1-613-996-6666 (CANADA)  
CANUTEC

**MANUFACTURER/SUPPLIER:** Safety-Kleen Corp. - 777 Big Timber Road - Elgin, IL, U.S.A. 60123  
Telephone number: 1-800-669-5840  
Safety-Kleen Canada Inc. - 3090 Blvd. Le Carrefour - Suite 300 - Chomedey Laval  
Quebec, Canada H7T 2J7 Telephone number: 1-800-363-2260

## PREPARATION INFORMATION

MSDS FORM NO.: 82341

REVISION DATE: March 18, 1992

ORIGINAL ISSUE DATE: February 13, 1991

SUPERSEDES: Original

PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

TELEPHONE NUMBER: For Product Technical Information Call 1-312-694-2700 (U.S.A.);  
1-800-363-2260 (Canada)

## SECTION 2 -- HAZARDOUS COMPONENTS

NAME	SYNONYM	CAS NO.	WT %	OSHA PEL		ACGIH TLV		OTHER DATA	
				TWA (ppm)	STEL (ppm)	TWA (ppm)	STEL (ppm)	LD <sup>50</sup>	LC
Parts Washer Solvent (Consists predominantly of C9 to C13 saturated hydrocarbons)	Mineral Spirits	64741-41-9	85	100 <sup>c</sup>	N.Av.	100 <sup>c</sup>	N.Av.	>5000 <sup>c</sup>	>5500 <sup>b,c</sup> mg/m <sup>3</sup> /4 hours
C8+ Aromatics	N.Av.	Mixture	12	N.Av.	N.Av.	N.Av.	N.Av.	N.Av.	N.Av.
*Xylene <sup>c</sup>	Dimethylbenzene	1330-20-7	1.0	100	150	100	150	4300	5000 <sup>b</sup> ppm/4 hours
*Ethylbenzene <sup>c</sup>	Phenylethane	100-41-4	0.5	100	125	100	125	3500	4000 <sup>d</sup> ppm/4 hours

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*Toluene	Methylbenzene	108-88-3	0.5	100	150	100	150	5000	4000 <sup>d</sup> ppm/4 hours
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N.Av. = Not Available

\*See Section 9-Other Regulatory Information

<sup>a</sup>Oral-Rat LD50 (mg/kg)

<sup>b</sup>Inhalation-Rat LC50

<sup>c</sup>For Stoddard Solvent

<sup>d</sup>Inhalation-Rat LCLo

<sup>e</sup>Constituent of C8+ Aromatics

**SECTION 3 -- EMERGENCY AND FIRST AID PROCEDURES**

**EYES:** For direct contact, flush eyes with water for 15 minutes lifting upper and lower lids occasionally. If irritation or redness from exposure to vapor or mist develops, move victim away from exposure into fresh air. Consult physician if irritation or pain persists.

**SKIN:** Remove contaminated clothing and shoes. Wash skin twice with soap and water. Consult physician if irritation or pain persists.

**INHALATION:**  
(Breathing) Remove to fresh air immediately. Use oxygen if there is difficulty breathing or artificial respiration if breathing has stopped. Do not leave victim unattended. Seek immediate medical attention if necessary.

**INGESTION:**  
(Swallowing) Seek immediate medical attention. Do NOT induce vomiting. If spontaneous vomiting occurs, keep head below hips to avoid aspiration (into lungs).

**SPECIAL NOTE TO PHYSICIAN:** Treat symptomatically and supportively. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Contact Rush Poison Control Center (see Section 1) for additional medical information.

**SECTION 4 -- HEALTH HAZARD DATA AND TOXICOLOGICAL PROPERTIES**

**PRIMARY ROUTES OF EXPOSURE:** Eye and skin contact; inhalation, ingestion.

**EXPOSURE LIMITS:** See Section 2.

**SIGNS AND SYMPTOMS OF EXPOSURE**

**ACUTE:** *Eyes:* Contact with liquid or exposure to vapors may cause mild to moderate irritation with stinging, tearing or redness.

*Skin:* Contact with liquid or exposure to vapors tends to remove skin oils, possibly leading to irritation and dermatitis. No significant skin absorption hazard.

*Inhalation (Breathing):* High concentrations of vapor or mist may be irritating to the respiratory tract; may cause nausea; may cause headaches, dizziness, impaired coordination, anesthesia and other central nervous system effects.

*Ingestion (Swallowing):* Low order of acute oral toxicity. May cause irritation of the throat, nausea, vomiting, myocardial injury with arrhythmias and symptoms of central nervous system depression as listed for ACUTE Inhalation. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

**CHRONIC:** Prolonged or repeated skin contact may cause drying and cracking or dermatitis.

**MEDICAL CONDITIONS**

**AGGRAVATED BY EXPOSURE:**

Individuals with pre-existing lung, cardiac, central nervous system or skin disorders may have increased susceptibility to the effects of exposure.

**CARCINOGENICITY:**

Not applicable.

Also see Section 9.

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### OTHER POTENTIAL HEALTH HAZARDS:

The following information is required by Canadian WHMIS regulations. Irritancy is covered in Signs and Symptoms of Exposure in Section 4. There is no known human sensitization or toxicologically synergistic product associated with this material. Xylene and toluene have demonstrated experimental effects for reproductive toxicity, mutagenicity and teratogenicity. Studies indicate ethylbenzene is an experimental teratogen.

## SECTION 5 – FIRE AND EXPLOSION HAZARD DATA

### EMERGENCY RESPONSE GUIDE NUMBER:

27  
Reference Emergency Response Guidebook (DOT 5800.5)

### FIRE AND EXPLOSION HAZARDS:

Vapor explosion hazard may occur indoors, outdoors or in sewers. Decomposition and combustion products may be toxic. Heated containers may rupture, explode or be thrown into the air. Vapors are heavier than air and may travel great distances to ignition source and flash back. Not sensitive to mechanical impact. Material may be sensitive to static discharge, which could result in fire or explosion.

### FIRE FIGHTING PROCEDURES:

NFPA 704 Rating 0-2-0 (Health-Fire-Reactivity)  
Keep storage containers cool with water spray. Positive-pressure, self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection.

### EXTINGUISHING MEDIA:

Carbon dioxide, foam, dry chemical or water spray.

### CONDITIONS OF FLAMMABILITY:

Heat, sparks or flame.

### FLASH POINT:

105°F (40°C) SETA

### AUTOIGNITION TEMPERATURE:

473°F (245°C)

### FLAMMABLE LIMITS IN AIR:

LOWER: 0.7 Vol. %                      UPPER: 6.0 Vol. %

### HAZARDOUS COMBUSTION PRODUCTS:

Burning may produce carbon monoxide.

## SECTION 6 – REACTIVITY DATA

### STABILITY:

Stable under normal temperatures and pressures, and not reactive with water.

### INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID):

Acids, oxidizing agents or chlorine may cause a violent reaction. Avoid heat, sparks or flame.

### HAZARDOUS POLYMERIZATION:

Not known to occur under normal temperatures and pressures.

### HAZARDOUS DECOMPOSITION PRODUCTS:

None under normal temperatures and pressures.

## SECTION 7 – PREVENTIVE MEASURES

### PRECAUTIONS FOR SAFE USE AND HANDLING

#### HANDLING PRECAUTIONS:

Keep away from heat, sparks or flame. Metal containers, including tank cars and trucks, should be grounded and bonded when material is transferred. Avoid contact with eyes, skin, clothing or shoes. Use in well ventilated area and avoid breathing vapor or mist.

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### PERSONAL HYGIENE:

Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco products. Clean contaminated clothing, shoes and protective equipment before reuse. Discard contaminated clothing, shoes or protective equipment if they cannot be thoroughly cleaned.

### SHIPPING AND STORING PRECAUTIONS:

Keep container tightly closed when not in use and during transport. Do not pressurize, cut, heat, weld, grind or expose containers to flame or other sources of ignition. Empty product containers may contain product residue. See Section 9 for Packing Group information.

### SPILL PROCEDURES:

Remove all ignition sources. Stop leak if you can do it without risk. Wear protective equipment specified in Section 7, CONTROL MEASURES. Ventilate area and avoid breathing vapor or mist. Water spray may reduce vapor, but it may not prevent ignition in closed spaces. For large spills, isolate area and deny entry; dike far ahead of liquid spill for later disposal. Contain away from surface waters and sewers. If possible, contain as a liquid for possible re-refining or sorb with compatible sorbent material and shovel with a non-sparking tool into closable container for disposal. See Emergency Response Guidebook (DOT P 5800.5) Guide Number 27 for more information.

### WASTE DISPOSAL METHODS:

Dispose in accordance with federal, state, provincial and local regulations. Contact Safety-Kleen regarding recycling or proper disposal.

## CONTROL MEASURES

### EYE PROTECTION:

Where there is likelihood of eye contact, wear chemical goggles and faceshield. Do NOT wear contact lenses.

### PROTECTIVE GLOVES:

Use Nitrile, Viton<sup>®</sup> or equivalent gloves to prevent contact with skin. Do NOT use Butyl rubber, natural rubber or equivalent gloves.

### RESPIRATORY PROTECTION:

Use NIOSH/MSHA-approved respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limit. A self-contained breathing apparatus (SCBA) and full protective equipment is required for large spills or fire emergencies. Selection and use of respiratory protective equipment should be in accordance in the U.S.A. with OSHA General Industry Standard 29 CFR 1910.134 or in Canada with CSA Standard Z94.4-M1982.

### ENGINEERING CONTROLS:

Provide process enclosure or local ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where explosive mixtures may be present, systems safe for such locations should be used.

### OTHER PROTECTIVE EQUIPMENT:

Where spills and splashes are possible, wear appropriate solvent-resistant boots, apron or other protective clothing. Clean water should be available in work areas for flushing the eyes and skin.

## SECTION 8 – PHYSICAL DATA

### PHYSICAL STATE, APPEARANCE AND ODOR:

Liquid, clear, green with characteristic hydrocarbon odor

### ODOR THRESHOLD:

Not available

### SPECIFIC GRAVITY:

0.77 to 0.80 at 60/60°F (16/16°C) (water = 1)

### DENSITY:

6.4 to 6.7 lbs/US gal (770 to 800 g/l)

### VAPOR DENSITY:

4.9 (air = 1)

### VAPOR PRESSURE:

2 mm Hg at 68°F (20°C)

### BOILING POINT:

304 to 435°F (151 to 224°C)

### FREEZING POINT:

Not available

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**pH:** 7 (water extraction)

**VOLATILE ORGANIC COMPOUNDS:** 100 WT %; 6.4 to 6.7 lbs/US gal; 770 to 800 g/l  
(US EPA DEFINITION)

**EVAPORATION RATE:** 0.1 (butyl acetate = 1)

**SOLUBILITY IN WATER:** Slight

**COEFFICIENT OF WATER/OIL  
DISTRIBUTION:** Not available

**MOLECULAR WEIGHT:** 142 (approximately)

**SECTION 9 -- OTHER REGULATORY INFORMATION**

**TRANSPORTATION INFORMATION**

**DOT PROPER SHIPPING NAME:** COMBUSTIBLE LIQUID, N.O.S. (Mineral Spirits)

**DOT CLASS:** Combustible Liquid

**DOT ID NUMBER:** NA1993, PGIII

**TDG CLASSIFICATION:** Naphtha, solvent, Class 3.3, UN1256, P.G. III

**SARA TITLE III:** Product contains toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. Toxic constituents are listed with an asterisk in Section 2 of this Material Safety Data Sheet.

Product poses the following physical and health hazards as defined in 40 CFR 370.3 (Sections 311, 312 of SARA Title III):

Immediate (Acute) Health Hazard  
Delayed (Chronic) Health Hazard  
Fire Hazard

**WHMIS CLASSIFICATION:** B3, Combustible Liquids;  
D2B, Poisonous and Infectious Material, Materials Causing Other Toxic Effects,  
Toxic Material

**CALIFORNIA:** This product is not sold or used in the State of California.

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the material as supplied to the user.