

SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782

SYNONYMS: None.

PRODUCT CODE: 5820, 5825, 6782

PRODUCT USE: Paint gun cleaner.
If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

This number is for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

**24-HOUR EMERGENCY PHONE NUMBER
MEDICAL AND TRANSPORTATION (SPILL):**

1-800-468-1760

SUPPLIER: Safety-Kleen Systems, Inc.
5360 Legacy Drive
Building 2, Suite 100
Plano, Texas 75024
USA
1-800-669-5740
www.Safety-Kleen.com

TECHNICAL INFORMATION: 1-800-669-5740 Press 1 then 1, then Extension 7500

MSDS FORM NUMBER: 82343

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PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

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SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear and colorless, solvent odor

DANGER!

PHYSICAL HAZARDS

Extremely flammable liquid and vapor.
Vapor may cause flash fire.

HEALTH HAZARDS

May be harmful or fatal if swallowed.
May be harmful if inhaled.
May be harmful if absorbed through the skin.
May irritate the respiratory tract (nose, throat, and lungs) and skin.
May cause blindness if swallowed.
May be severely irritating to the eyes.
Contains material which may cause central nervous system and eye damage.
Suspect cancer hazard. Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.

ENVIRONMENTAL HAZARDS

Toxic to fish/plants.

OSHA Regulated Chemicals

Ethyl benzene (100-41-4)

Select Carcinogen

Methylene chloride (75-09-2)

12.5 ppm Action Level; 25 ppm TWA; 125 ppm STEL (15 min. Cancer, cardiac effects, central nervous system effects, liver effects, and skin and eye irritation - See 29 CFR 1910.1052)

Specifically Regulated Chemical

Select Carcinogen

Perchloroethylene (127-18-4)

Select Carcinogen

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POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING): High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

EYES: May be severely irritating to the eyes. May cause tearing, redness, swelling, burns, and eye damage.

SKIN: May cause irritation. Toluene, n-butyl alcohol and methyl alcohol may be absorbed through the skin and cause harm as noted under **INHALATION (BREATHING)**.

INGESTION (SWALLOWING): May be harmful or fatal if swallowed. Ingestion of methanol may cause blindness. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION (BREATHING)**. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing respiratory tract (nose, throat, and lungs), cardiovascular, liver, kidney, central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Prolonged or repeated inhalation may cause brain, liver, kidney, heart, and central nervous system damage. Prolonged or repeated inhalation or ingestion exposure may have reproductive toxicity and/or teratogenicity effects. Prolonged or repeated exposure may have mutagenic effects.

CANCER INFORMATION: This product contains ethyl benzene, methylene chloride, and perchloroethylene which may cause cancer. Risk of cancer depends on duration and level of exposure. For more information, see **SECTION 11: CARCINOGENICITY**.

Also see **SECTION 15: CALIFORNIA**.

POTENTIAL ENVIRONMENTAL EFFECTS

Toxic to fish/plants. See **SECTION 12: ECOLOGICAL INFORMATION**.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component	Synonym	Percent
108-88-3	Toluene	Methyl Benzene	30-60
64741-89-5	C5 to C8 Aliphatic hydrocarbons	Low boiling hydrocarbons	0-60
8030-30-6	C9 to C13 Aliphatic hydrocarbons	Medium boiling hydrocarbon	0-60
108-10-1	Methyl isobutyl ketone	Hexone	0-60
110-43-0	Methyl n-amyl ketone	2-Heptanone	0-60
78-93-3	Methyl ethyl ketone	2-Butanone	0-60
107-87-9	Methyl propyl ketone	2-Pentanone	0-60
100-41-4	Ethyl benzene	Phenylethane	0-30
67-64-1	Acetone	Dimethyl ketone	0-20
763-69-9	Ethyl 3-ethoxypropanoate	Ethyl beta-ethoxy propionate	0-17
141-78-6	Ethyl acetate	Acetic acid	0-17
108-65-6	Propylene glycol monomethyl ether acetate	1-Methoxy-2propanol acetate	0-17
108-21-4	Isopropyl acetate	2-Acetoxyp propane	0-17
123-86-4	n-Butyl acetate	N. Av.	0-17
110-19-0	Isobutyl acetate	2-Methylpropyl acetate	0-17
1330-20-7	Xylenes (o-, m-, p- isomers)	Dimethylbenzene	0-15
67-63-0	Isopropyl alcohol	Isopropanol	0-10
64-17-5	Ethyl alcohol	Ethanol	0-10
75-65-0	tert-Butyl alcohol	Trimethylmethanol	0-10
71-36-3	n-Butyl alcohol	1-Butanol	0-10
67-56-1	Methyl alcohol	Methanol	0-4
127-18-4	Perchloroethylene	Tetrachloroethylene	0-1
75-09-2	Methylene chloride	Dicloromethane	0-1
71-55-6	1,1,1-Trichloroethane	Methyl chloroform	0-1

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Butyl acetates.

SECTION 4: FIRST AID MEASURES

INHALATION (BREATHING): Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

EYES: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Seek medical attention.

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INGESTION (SWALLOWING): Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: Treat symptomatically and supportively. Increased sensitivity of the heart to Adrenaline (epinephrine) may be caused by overexposure to product. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Treatment may vary with condition of victim and specifics of incident. Call 1-800-428-1760 for additional information.

SECTION 5: FIRE FIGHTING MEASURES

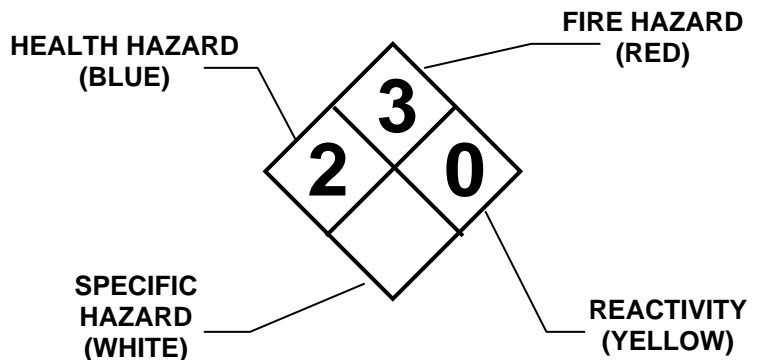
HAZARDOUS COMBUSTION PRODUCTS: Decomposition and combustion materials may be toxic. Burning may produce phosgene, chlorides, chloroacetylenes, formaldehyde, peracetic acid, carbon monoxide and unidentified organic compounds.

CONDITIONS OF FLAMMABILITY: Heat, sparks, or flame.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

EXTINGUISHING MEDIA: Carbon dioxide, alcohol-resistant foam, dry chemical, or water spray.

NFPA 704 HAZARD IDENTIFICATION: This information is intended solely for the use by individuals trained in this system.



FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray.

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**FIRE AND EXPLOSION
HAZARDS:**

Vapor explosion hazard indoors, outdoors, or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire or explosion hazard. Heated containers may rupture, explode, or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION**.

SECTION 7: HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring large quantities of product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

**SHIPPING AND
STORING:** Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition; containers may explode and cause injury or death. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Component Exposure Limits

Toluene (108-88-3)

ACGIH: 20 ppm TWA
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 100 ppm TWA; 375 mg/m³ TWA
150 ppm STEL; 560 mg/m³ STEL
NIOSH: 100 ppm TWA; 375 mg/m³ TWA
150 ppm STEL; 560 mg/m³ STEL

Methyl isobutyl ketone (108-10-1)

ACGIH: 50 ppm TWA
75 ppm STEL
OSHA: 50 ppm TWA; 205 mg/m³ TWA
75 ppm STEL; 300 mg/m³ STEL
NIOSH: 50 ppm TWA; 205 mg/m³ TWA
75 ppm STEL; 300 mg/m³ STEL

Methyl propyl ketone (107-87-9)

ACGIH: 150 ppm STEL
OSHA: 200 ppm TWA; 700 mg/m³ TWA
250 ppm STEL; 875 mg/m³ STEL
NIOSH: 150 ppm TWA; 530 mg/m³ TWA

Methyl n-amyl ketone (110-43-0)

ACGIH: 50 ppm TWA
OSHA: 100 ppm TWA; 465 mg/m³ TWA
NIOSH: 100 ppm TWA; 465 mg/m³ TWA

Methyl ethyl ketone (78-93-3)

ACGIH: 200 ppm TWA
300 ppm STEL
OSHA: 200 ppm TWA; 590 mg/m³ TWA
300 ppm STEL; 885 mg/m³ STEL
NIOSH: 200 ppm TWA; 590 mg/m³ TWA
300 ppm STEL; 885 mg/m³ STEL

C9 to C13 Aliphatic hydrocarbons (8030-30-6)

OSHA: 100 ppm TWA; 400 mg/m³ TWA
NIOSH: 100 ppm TWA; 400 mg/m³ TWA

Ethyl benzene (100-41-4)

ACGIH: 100 ppm TWA
125 ppm STEL
OSHA: 100 ppm TWA; 435 mg/m³ TWA
125 ppm STEL; 545 mg/m³ STEL
NIOSH: 100 ppm TWA; 435 mg/m³ TWA
125 ppm STEL; 545 mg/m³ STEL

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Acetone (67-64-1)

ACGIH: 500 ppm TWA
750 ppm STEL
OSHA: 750 ppm TWA; 1800 mg/m³ TWA
1000 ppm STEL; 2400 mg/m³ STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors)
NIOSH: 250 ppm TWA; 590 mg/m³ TWA

Ethyl acetate (141-78-6)

ACGIH: 400 ppm TWA
OSHA: 400 ppm TWA; 1400 mg/m³ TWA
NIOSH: 400 ppm TWA; 1400 mg/m³ TWA

Isopropyl acetate (108-21-4)

ACGIH: 100 ppm TWA
200 ppm STEL
OSHA: 250 ppm TWA; 950 mg/m³ TWA
310 ppm STEL; 1185 mg/m³ STEL

Isobutyl acetate (110-19-0)

ACGIH: 150 ppm TWA
OSHA: 150 ppm TWA; 700 mg/m³ TWA
NIOSH: 150 ppm TWA; 700 mg/m³ TWA

n-Butyl acetate (123-86-4)

ACGIH: 150 ppm TWA
200 ppm STEL
OSHA: 150 ppm TWA; 710 mg/m³ TWA
200 ppm STEL; 950 mg/m³ STEL
NIOSH: 150 ppm TWA; 710 mg/m³ TWA
200 ppm STEL; 950 mg/m³ STEL

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: 100 ppm TWA
150 ppm STEL
OSHA: 100 ppm TWA; 435 mg/m³ TWA
150 ppm STEL; 655 mg/m³ STEL

tert-Butyl alcohol (75-65-0)

ACGIH: 100 ppm TWA
OSHA: 100 ppm TWA; 300 mg/m³ TWA
150 ppm STEL; 450 mg/m³ STEL
NIOSH: 100 ppm TWA; 300 mg/m³ TWA
150 ppm STEL; 450 mg/m³ STEL

Isopropyl alcohol (67-63-0)

ACGIH: 200 ppm TWA
400 ppm STEL
OSHA: 400 ppm TWA; 980 mg/m³ TWA
500 ppm STEL; 1225 mg/m³ STEL
NIOSH: 400 ppm TWA; 980 mg/m³ TWA
500 ppm STEL; 1225 mg/m³ STEL

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Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm TWA
OSHA: 1000 ppm TWA; 1900 mg/m³ TWA
NIOSH: 1000 ppm TWA; 1900 mg/m³ TWA

n-Butyl alcohol (71-36-3)

ACGIH: 20 ppm TWA
OSHA: 50 ppm Ceiling; 150 mg/m³ Ceiling
Prevent or reduce skin absorption
NIOSH: 50 ppm Ceiling; 150 mg/m³ Ceiling
Potential for dermal absorption

Methyl alcohol (67-56-1)

ACGIH: 200 ppm TWA
250 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 200 ppm TWA; 260 mg/m³ TWA
250 ppm STEL; 325 mg/m³ STEL
Prevent or reduce skin absorption
NIOSH: 200 ppm TWA; 260 mg/m³ TWA
250 ppm STEL; 325 mg/m³ STEL
Potential for dermal absorption

1,1,1-Trichloroethane (71-55-6)

ACGIH: 350 ppm TWA
450 ppm STEL
OSHA: 350 ppm TWA; 1900 mg/m³ TWA
450 ppm STEL; 2450 mg/m³ STEL
NIOSH: 350 ppm Ceiling (15 min); 1900 mg/m³ Ceiling (15 min)

Methylene chloride (75-09-2)

ACGIH: 50 ppm TWA
OSHA: 12.5 ppm Action Level; 25 ppm TWA; 125 ppm STEL (15 min. Cancer, cardiac effects, central nervous system effects, liver effects, and skin and eye irritation - See 29 CFR 1910.1052)

Perchloroethylene (127-18-4)

ACGIH: 25 ppm TWA
100 ppm STEL
OSHA: 25 ppm TWA; 170 mg/m³ TWA

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

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PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use NIOSH air-certified, air-supplied respirators (self-contained breathing apparatus or air-line) respiratory protective equipment when concentration of methanol or methylene chloride may exceed applicable exposure limits. Otherwise, use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

EYE PROTECTION: Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

SKIN PROTECTION: Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex), polyvinyl chloride (PVC), neoprene or equivalent gloves is not recommended.

To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR: Liquid, clear and colorless, solvent odor
ODOR THRESHOLD: Not available.

MOLECULAR WEIGHT: Not available.

SPECIFIC GRAVITY: 0.83 (water = 1) (approximately)

DENSITY: 6.9 LB/US gal (830 g/L) (approximately)

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VAPOR DENSITY:	2.2 to 3.9 (air = 1) (approximately)
VAPOR PRESSURE:	86 mm Hg at 68°F (20°C) 205 mmHg at 100°F (38°C)
BOILING POINT:	133 to 342°F (56 to 172°C)
FREEZING/MELTING POINT:	Not available
pH:	Not applicable
EVAPORATION RATE:	3.7 (butyl acetate = 1) (based on a similar product)
SOLUBILITY IN WATER:	Slight.
FLASH POINT:	Less than 70°F (21°C) Tag Closed Cup
FLAMMABLE LIMITS IN AIR:	LOWER: 1 VOL% (approximately) UPPER: 13 VOL% (approximately)
AUTOIGNITION TEMPERATURE:	800°F (427°C)

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under normal temperatures and pressures. Avoid heat, sparks, or flame.
CONDITIONS TO AVOID:	Ignition sources and incompatible materials.
INCOMPATIBILITY:	Avoid acids, alkalis, oxidizing agents, reducing agents, reactive halogens, or reactive metals.
REACTIVITY:	Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.
HAZARDOUS DECOMPOSITION PRODUCTS:	None under normal temperatures and pressures. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

SECTION 11: TOXICOLOGICAL INFORMATION
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TOXICITY DATA:

Component Analysis - LD50/LC50

Toluene (108-88-3)

Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

Methyl isobutyl ketone (108-10-1)

Inhalation LC50 Rat 8.2 mg/L 4 h; Oral LD50 Rat 2080 mg/kg; Dermal LD50 Rabbit >16000 mg/kg

Methyl propyl ketone (107-87-9)

Oral LD50 Rat 1600 mg/kg; Dermal LD50 Rabbit 6500 mg/kg

Methyl n-amyl ketone (110-43-0)

Oral LD50 Rat 1670 mg/kg; Dermal LD50 Rabbit 12600 µL/kg

C5 to C8 Aliphatic hydrocarbons (64741-89-5)

Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

Methyl ethyl ketone (78-93-3)

Inhalation LC50 Mouse 32 g/m³ 4 h; Oral LD50 Rat 2737 mg/kg; Dermal LD50 Rabbit 6480 mg/kg

C9 to C13 Aliphatic hydrocarbons (8030-30-6)

Oral LD50 Rat >5 g/kg; Dermal LD50 Rabbit >3 g/kg

Ethyl benzene (100-41-4)

Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15354 mg/kg

Acetone (67-64-1)

Oral LD50 Rat 5800 mg/kg

Ethyl acetate (141-78-6)

Oral LD50 Rat 5620 mg/kg; Dermal LD50 Rabbit >20 mL/kg; Dermal LD50 Rabbit >18000 mg/kg

Isopropyl acetate (108-21-4)

Oral LD50 Rat 6750 mg/kg; Dermal LD50 Rabbit >20000 mg/kg

Isobutyl acetate (110-19-0)

Oral LD50 Rat 13400 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

Ethyl 3-ethoxypropanoate (763-69-9)

Oral LD50 Rat 3200 mg/kg; Dermal LD50 Rabbit 10 mL/kg

Propylene glycol monomethyl ether acetate (108-65-6)

Oral LD50 Rat 8532 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

n-Butyl acetate (123-86-4)

Inhalation LC50 Rat 390 ppm 4 h; Oral LD50 Rat 10768 mg/kg; Dermal LD50 Rabbit >17600 mg/kg

Xylenes (o-, m-, p- isomers) (1330-20-7)

Inhalation LC50 Rat 5000 ppm 4 h; Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg; Dermal LD50 Rabbit >1700 mg/kg

tert-Butyl alcohol (75-65-0)

Inhalation LC50 Rat >9700 ppm 4 h; Oral LD50 Rat 2733 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

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Isopropyl alcohol (67-63-0)

Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg

Ethyl alcohol (64-17-5)

Oral LD50 Rat 7060 mg/kg

n-Butyl alcohol (71-36-3)

Inhalation LC50 Rat >17.7 mg/L 4 h; Inhalation LC50 Rat 8000 ppm 4 h; Oral LD50 Rat 790 mg/kg; Dermal LD50 Rabbit 3400 mg/kg

Methyl alcohol (67-56-1)

Inhalation LC50 Rat 83.2 mg/L 4 h; Inhalation LC50 Rat 64000 ppm 4 h; Oral LD50 Rat 5628 mg/kg; Dermal LD50 Rabbit 15800 mg/kg

1,1,1-Trichloroethane (71-55-6)

Inhalation LC50 Rat 18000 ppm 4 h; Oral LD50 Rat >2000 mg/kg; Dermal LD50 Rat >2000 mg/kg; Dermal LD50 Rabbit >15800 mg/kg

Methylene chloride (75-09-2)

Oral LD50 Rat >2000 mg/kg; Inhalation LC50 Rat 76000 mg/m³ 4 h

Perchloroethylene (127-18-4)

Inhalation LC50 Rat 4000 ppm 4 h; Oral LD50 Rat 2629 mg/kg; Dermal LD50 Mouse 2800 mg/kg

ACUTE EFFECTS:

Harmful by inhalation, in contact with skin and if swallowed. May be fatal or cause blindness if ingested. Irritating to respiratory system and skin. May be severely irritating to the eyes. High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects.

REPEATED DOSE EFFECTS:

Toluene, ethyl benzene, ethyl alcohol, isopropyl alcohol, methyl alcohol, xylene, 1,1,1-trichloroethane, methylene chloride and n-butyl alcohol have demonstrated experimental effects of mutagenicity. Perchloroethylene has demonstrated human effects of mutagenicity.

Based on best current information, the other components listed in **SECTION 2** are not mutagens.

Toluene, ethylbenzene, ethyl alcohol, isopropyl alcohol, methyl alcohol, perchloroethylene, and xylene have demonstrated animal effects of teragenicity.

Based on best current information, the other components listed in **SECTION 2** are not teratogens.

Toluene, ethyl benzene, methyl chloride, ethyl alcohol, xylene, perchloroethylene, isopropyl alcohol, n-butyl alcohol, and methyl ethyl ketone have demonstrated animal effects of reproductive toxicity. Based on best current information, the other components listed in **SECTION 2** are not reproductive toxicants. Also see **SECTION 15: CALIFORNIA**.

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CARCINOGENICITY:

Ethyl benzene, methylene chloride, and perchloroethylene are categorized by ACGIH as an animal carcinogen (A3). Ethyl benzene and methylene chloride are categorized by IARC as possibly carcinogenic to humans (Group 2B). Perchloroethylene is categorized by IARC as probably carcinogenic to humans (group 2A).

Ethyl benzene, methylene chloride, and perchloroethylene are listed by NTP as having sufficient evidence of carcinogenicity in experimental animals, but is not known or reasonably anticipated to be a human carcinogen according to NTP.

Based on best current information for the other components listed in **SECTION 2**, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

Also see **SECTION 3: CANCER INFORMATION** and **SECTION 15: CALIFORNIA**.

TARGET ORGAN EFFECTS:

Prolonged or repeated inhalation may cause brain, liver, kidney, heart, and central nervous system damage.

<p>SECTION 12: ECOLOGICAL INFORMATION</p>
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ECOTOXICITY: Toxic to fish/plants.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Toluene (108-88-3)

Test & Species

96 Hr LC50 Pimephales promelas	15.22-19.05 mg/L [flow-through]	Conditions 1 day old
96 Hr LC50 Pimephales promelas	12.6 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.89-7.81 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	14.1-17.16 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.8 mg/L [semi-static]	
96 Hr LC50 Lepomis macrochirus	11.0-15.0 mg/L [static]	
96 Hr LC50 Oryzias latipes	54 mg/L [static]	
96 Hr LC50 Poecilia reticulata	28.2 mg/L [semi-static]	
96 Hr LC50 Poecilia reticulata	50.87-70.34 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	>433 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	12.5 mg/L [static]	

Methyl isobutyl ketone (108-10-1)

Test & Species

96 Hr LC50 Pimephales promelas	496-514 mg/L [flow-through]	Conditions
96 Hr EC50 Pseudokirchneriella subcapitata	400 mg/L	

Methyl propyl ketone (107-87-9)

Test & Species

96 Hr LC50 Pimephales promelas	1190-1290 mg/L [flow-through]	Conditions
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Methyl n-amyl ketone (110-43-0)

Test & Species

96 Hr LC50 Pimephales promelas	126-137 mg/L [flow-through]	Conditions
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C5 to C8 Aliphatic hydrocarbons (64741-89-5)

Test & Species

96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L	Conditions
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Methyl ethyl ketone (78-93-3)

Test & Species

96 Hr LC50 Pimephales promelas	3130-3320 mg/L [flow-through]	Conditions
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C9 to C13 Aliphatic hydrocarbons (8030-30-6)

Test & Species

96 Hr LC50 Lepomis macrochirus	9.2 mg/L [static]	Conditions
72 Hr EC50 Pseudokirchneriella subcapitata	4700 mg/L	

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Ethyl benzene (100-41-4)

Test & Species

96 Hr LC50 Oncorhynchus mykiss	11.0-18.0 mg/L [static]	Conditions
96 Hr LC50 Oncorhynchus mykiss	4.2 mg/L [semi-static]	
96 Hr LC50 Pimephales promelas	7.55-11 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	32 mg/L [static]	
96 Hr LC50 Pimephales promelas	9.1-15.6 mg/L [static]	
96 Hr LC50 Poecilia reticulata	9.6 mg/L [static]	
72 Hr EC50 Pseudokirchneriella subcapitata	4.6 mg/L	
96 Hr EC50 Pseudokirchneriella subcapitata	>438 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	2.6 - 11.3 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	1.7 - 7.6 mg/L [static]	

Acetone (67-64-1)

Test & Species

96 Hr LC50 Oncorhynchus mykiss	4.74-6.33 ml/L	Conditions
96 Hr LC50 Pimephales promelas	6210-8120 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	8300 mg/L	

Ethyl acetate (141-78-6)

Test & Species

96 Hr LC50 Pimephales promelas	220-250 mg/L [flow-through]	Conditions
96 Hr LC50 Oncorhynchus mykiss	484 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	352-500 mg/L [semi-static]	
48 Hr EC50 Desmodemus subspicatus	3300 mg/L	

Isobutyl acetate (110-19-0)

Test & Species

48 Hr LC50 Leuciscus idus melanotus	101 mg/L	Conditions
48 Hr LC50 Leuciscus idus melanotus	101-123 mg/L	

Ethyl 3-ethoxypropanoate (763-69-9)

Test & Species

96 Hr LC50 Pimephales promelas	62 mg/L	Conditions
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Propylene glycol monomethyl ether acetate (108-65-6)

Test & Species

96 Hr LC50 Pimephales promelas	161 mg/L	Conditions
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n-Butyl acetate (123-86-4)

Test & Species

96 Hr LC50 Pimephales promelas	17-19 mg/L [flow-through]	Conditions
96 Hr LC50 Lepomis macrochirus	100 mg/L [static]	
96 Hr LC50 Leuciscus idus	62 mg/L [static]	
72 Hr EC50 Desmodemus subspicatus	674.7 mg/L	

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Xylenes (o-, m-, p- isomers) (1330-20-7)

Test & Species

96 Hr LC50 Pimephales promelas	13.4 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	2.661-4.093 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	13.5-17.3 mg/L
96 Hr LC50 Lepomis macrochirus	13.1-16.5 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	19 mg/L
96 Hr LC50 Lepomis macrochirus	7.711-9.591 mg/L [static]
96 Hr LC50 Pimephales promelas	23.53-29.97 mg/L [static]
96 Hr LC50 Cyprinus carpio	780 mg/L [semi-static]
96 Hr LC50 Cyprinus carpio	>780 mg/L
96 Hr LC50 Poecilia reticulata	30.26-40.75 mg/L [static]

Conditions

tert-Butyl alcohol (75-65-0)

Test & Species

96 Hr LC50 Pimephales promelas	6130-6700 mg/L [flow-through]
72 Hr EC50 Desmodemus subspicatus	>1000 mg/L

Conditions

Isopropyl alcohol (67-63-0)

Test & Species

96 Hr LC50 Pimephales promelas	9640 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	11130 mg/L [static]
96 Hr LC50 Lepomis macrochirus	>1400000 µg/L
96 Hr EC50 Desmodemus subspicatus	>1000 mg/L
72 Hr EC50 Desmodemus subspicatus	>1000 mg/L

Conditions

Ethyl alcohol (64-17-5)

Test & Species

96 Hr LC50 Oncorhynchus mykiss	12.0-16.0 ml/L [static]
96 Hr LC50 Pimephales promelas	>100 mg/L [static]

Conditions

n-Butyl alcohol (71-36-3)

Test & Species

96 Hr LC50 Pimephales promelas	1730-1910 mg/L [static]
96 Hr LC50 Pimephales promelas	1740 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	100000-500000 µg/L [static]
96 Hr LC50 Pimephales promelas	1910000 µg/L [static]
96 Hr EC50 Desmodemus subspicatus	>500 mg/L

Conditions

Methyl alcohol (67-56-1)

Test & Species

96 Hr LC50 Pimephales promelas	28200 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	>100 mg/L [static]

Conditions

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1,1,1-Trichloroethane (71-55-6)

Test & Species

96 Hr LC50 Pimephales promelas	35.2-50.7 mg/L [flow-through]	Conditions
96 Hr LC50 Lepomis macrochirus	57-90 mg/L [static]	
96 Hr LC50 Cyprinus carpio	56 mg/L [flow-through]	
96 Hr LC50 Poecilia reticulata	52.9 mg/L [flow-through]	
96 Hr LC50 Poecilia reticulata	69.7 mg/L [static]	
96 Hr LC50 Pimephales promelas	91-126 mg/L [static]	

Methylene chloride (75-09-2)

Test & Species

96 Hr LC50 Pimephales promelas	140.8-277.8 mg/L [flow-through]	Conditions
96 Hr LC50 Pimephales promelas	262-855 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	193 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	193 mg/L [flow-through]	
96 Hr EC50 Pseudokirchneriella subcapitata	>500 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	>500 mg/L	

Perchloroethylene (127-18-4)

Test & Species

96 Hr LC50 Pimephales promelas	12.4-14.4 mg/L [flow-through]	Conditions
96 Hr LC50 Pimephales promelas	8.6-13.5 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	11.0-15.0 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	4.73-5.27 mg/L [flow-through]	
96 Hr EC50 Pseudokirchneriella subcapitata	>500 mg/L	

Toluene (108-88-3)

Test & Species

96 Hr LC50 Pimephales promelas	25 mg/L	Conditions
96 Hr LC50 Oncorhynchus mykiss	24.0 mg/L	
96 Hr LC50 Lepomis macrochirus	24.0 mg/L	
96 Hr LC50 Lepomis macrochirus	13 mg/L	
96 Hr EC50 Selenastrum capricornutum	>433 mg/L	

Methyl isobutyl ketone (108-10-1)

Test & Species

96 Hr LC50 Pimephales promelas	505 mg/L	Conditions
96 Hr EC50 Selenastrum capricornutum	400 mg/L	

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MOBILITY:	May cause long-term adverse effects in the aquatic environment.
BIOACCUMULATION/ ACCUMULATION:	Product is not expected to bioaccumulate.
MOBILITY IN ENVIRONMENTAL MEDIA:	No information available.
OTHER ADVERSE EFFECTS:	Toxic to fish/plants. See SECTION 12: ECOLOGICAL INFORMATION.
OCTANOL/WATER PARTITION COEFFICIENT:	Not available.
VOLATILE ORGANIC COMPOUNDS:	Up to 100 WT%; 6.9 lb/US gal (830 g/l) As per 40 CFR Part 51.100(s) Photochemically Reactive (up to 100% by volume) VOC VP @20°C = 86 mmHg (approx)

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL:	Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.
USEPA WASTE CODE(S):	D001, D018, D035, D039. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

SECTION 14: TRANSPORT INFORMATION

DOT:	Shipping Name: Paint related material UN/NA #: UN1263 Hazard Class: 3 Packing Group: II Required Label(s): FLAMMABLE LIQUID
TDG:	Shipping Name: Paint related material UN/NA #: UN1263 Hazard Class: 3 Packing Group: II Required Label(s): FLAMMABLE LIQUID

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EMERGENCY RESPONSE 128
GUIDE NUMBER: Reference *North American Emergency Response Guidebook*

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

OSHA OSHA Regulated Chemicals
Ethyl benzene (100-41-4)
Select Carcinogen

Methylene chloride (75-09-2)
12.5 ppm Action Level; 25 ppm TWA; 125 ppm STEL (15 min. Cancer, cardiac effects, central nervous system effects, liver effects, and skin and eye irritation - See 29 CFR 1910.1052)
Specifically Regulated Chemical
Select Carcinogen

Perchloroethylene (127-18-4)
Select Carcinogen

SARA SECTIONS 302 AND 304: Based on the ingredient(s) listed in **SECTION 2**, these products do not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312: This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):
Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

SARA SECTION 313: This product does contain "toxic" chemical(s) subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Component	CAS
Toluene	108-88-3
Methyl isobutyl ketone	108-10-1
Ethyl benzene	100-41-1
Xylenes (o-, m-, p- isomers)	1330-20-7
tert-Butyl alcohol	75-65-0
Isopropyl alcohol	67-63-0
n-Butyl alcohol	71-36-3

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Methyl alcohol	67-56-1
1,1,1-Trichloroethane	71-55-6
Methylene chloride	75-09-2
Perchloroethylene	127-18-4

CERCLA: Based on the ingredient(s) listed in SECTION 2, this product contains the following "hazardous substance(s)" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Component	CAS	RQ
Toluene	108-88-3	1000 LB (454 kg)
Methyl isobutyl ketone	108-10-1	5000 LB (2270 kg)
Methyl ethyl ketone	78-93-3	5000 LB (2270 kg)
Ethyl benzene	100-41-4	1000 LB (454 kg)
Acetone	67-64-1	5000 LB (2270 kg)
Ethyl acetate	141-78-6	5000 LB (2270 kg)
Isobutyl acetate	110-19-0	5000 LB (2270 kg)
n-Butyl acetate	123-86-4	5000 LB (2270 kg)
Xylenes	1330-20-7	100 LB (45.4 kg)
n-Butyl alcohol	71-36-3	5000 LB (2270 kg)
Methyl alcohol	67-56-1	5000 LB (2270 kg)
1,1,1-Trichloroethane	71-55-6	1000 LB (454 kg)
Methylene chloride	75-09-2	1000 LB (454 kg)
Perchloroethylene	127-18-4	100 LB (45.4 kg)

TSCA: All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product may contain a detectable amount of benzene CAS 71-43-2, methylene chloride CAS 75-09-2 and perchloroethylene CAS 127-18-4. WARNING: These chemicals are known to the State of California to cause cancer.

This product contains detectable amounts of toluene CAS 108-88-3, benzene CAS 71-43-2, and ethyl alcohol CAS 64-17-5. WARNING: These chemicals are known to the State of California to cause birth defects or other reproductive harm.

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CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

<p>SECTION 16. OTHER INFORMATION</p>

REVISION INFORMATION: Section 12, VOC.

LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this (these) product(s). 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 express 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 product(s) as supplied to the user.

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