Material Safety Data Sheet

Material Name: RECYCLED CLEANING THINNER **ID: 82659**

* * * Section 1 - Chemical Product and Company Identification * * *

Product Code: 721, 3305

Product Use: Cleaning solvent. If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

Synonyms: None.

Safety-Kleen Systems, Inc.
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Suite 400
Richardson, TX 75080

Phone: 1-800-669-5740

Emergency # 1-800-468-1760
www.safety-kleen.com

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PREPARED BY: Product MSDS Coordinator APPROVED BY: MSDS Task Force

* * * Section 2 - Hazardous Identification * * *

EMERGENCY OVERVIEW

Appearance

Clear and colorless liquid, solvent odor

Signal Word

DANGER!

Physical Hazards

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

Health Hazards

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

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. High concentrations of vapor or mist may cause liver or kidney damage. 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 if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION (BREATHING)**. Aspiration hazard: 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 alcohol, ethyl benzene, methylene chloride, perchloroethylene and trichloroethene 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**.

Environmental Hazards

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

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
108-88-3	Toluene	30-60
64741-89-5	C5 to C8 Aliphatic hydrocarbons	0-60*
107-87-9	Methyl propyl ketone	0-60*
78-93-3	Methyl ethyl ketone	0-60*
108-10-1	Methyl isobutyl ketone	0-60*
110-43-0	Methyl n-amyl ketone	0-60*
8030-30-6	C9 to C13 Aliphatic hydrocarbons	0-60*
100-41-4	Ethyl benzene	0-60*
67-64-1	Acetone	0-20*
108-21-4	Isopropyl acetate	0-25*
108-65-6	Propylene glycol monomethyl ether acetate	0-25*
110-19-0	Isobutyl acetate	0-25*
123-86-4	n-Butyl acetate	0-25*
141-78-6	Ethyl acetate	0-25*
763-69-9	Ethyl 3-ethoxypropanoate	0-25*
1330-20-7	Xylenes (o-, m-, p- isomers)	0-15*
67-63-0	Isopropyl alcohol	0-10*
71-36-3	n-Butyl alcohol	0-10*
75-65-0	tert-Butyl alcohol	0-10*
64-17-5	Ethyl alcohol	0-10*
67-56-1	Methyl alcohol	0-4*

127-18-4	Perchloroethylene	0-1*
71-55-6	1,1,1-Trichloroethane	0-1*
75-09-2	Methylene chloride	0-1*
79-01-6	Trichloroethene	0-1*

Component Related Regulatory Information

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

*Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

* * * 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

Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.

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.

Notes 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 1-800-468-1760 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.

Extinguishing Media

Carbon dioxide, foam, dry chemical, or water spray.

Protective Equipment For Firefighting

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

Fire Fighting Equipment/Instructions

Keep storage containers cool with water spray.

NFPA Ratings: Health: 2 **Fire:** 3 **Reactivity:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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 Procedures

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.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Exposure Guidelines

Component Exposure Limits

Toluene (108-88-3)

ACGIH:	20 ppm TWA
OSHA Final:	200 ppm TWA
	300 ppm Ceiling
OSHA Vacated:	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 propyl ketone (107-87-9)

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

Methyl isobutyl ketone (108-10-1)

ACGIH:	20 ppm TWA
	75 ppm STEL
OSHA Final:	100 ppm TWA; 410 mg/m3 TWA
OSHA Vacated:	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

Ethyl benzene (100-41-4)

ACGIH:	20 ppm TWA
OSHA Final:	100 ppm TWA; 435 mg/m3 TWA
OSHA Vacated:	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

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

ACGIH:	50 ppm TWA
OSHA Final:	100 ppm TWA; 465 mg/m3 TWA
OSHA Vacated:	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 Final:	200 ppm TWA; 590 mg/m3 TWA
OSHA Vacated:	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 Final:	100 ppm TWA; 400 mg/m3 TWA
OSHA Vacated:	100 ppm TWA; 400 mg/m3 TWA
NIOSH:	100 ppm TWA; 400 mg/m3 TWA

Acetone (67-64-1)

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

Ethyl acetate (141-78-6)

ACGIH:	400 ppm TWA
OSHA Final:	400 ppm TWA; 1400 mg/m3 TWA
OSHA Vacated:	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 Final:	250 ppm TWA; 950 mg/m3 TWA
OSHA Vacated:	250 ppm TWA; 950 mg/m3 TWA
	310 ppm STEL; 1185 mg/m3 STEL

Isobutyl acetate (110-19-0)

ACGIH:	150 ppm TWA
OSHA Final:	150 ppm TWA; 700 mg/m3 TWA
OSHA Vacated:	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 Final:	150 ppm TWA; 710 mg/m3 TWA
OSHA Vacated:	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 Final:	100 ppm TWA; 435 mg/m3 TWA
OSHA Vacated:	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 Final:	100 ppm TWA; 300 mg/m3 TWA
OSHA Vacated:	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 Final:	400 ppm TWA; 980 mg/m3 TWA
OSHA Vacated:	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

Ethyl alcohol (64-17-5)

ACGIH:	1000 ppm STEL
OSHA Final:	1000 ppm TWA; 1900 mg/m3 TWA
OSHA Vacated:	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 Final:	100 ppm TWA; 300 mg/m3 TWA
OSHA Vacated:	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 Final: 200 ppm TWA; 260 mg/m3 TWA

OSHA Vacated: 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 Final: 350 ppm TWA; 1900 mg/m3 TWA

OSHA Vacated: 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 Final: 125 ppm STEL (See 29 CFR 1910.1052, 15 min); 12.5 ppm Action Level (See 29 CFR 1910.1052); 25 ppm TWA (See 29 CFR 1910.1052)
25 ppm TWA
125 ppm STEL (see 29 CFR 1910.1052)

OSHA Vacated: 500 ppm TWA
2000 ppm STEL (5 min in any 3 h)
1000 ppm Ceiling

Trichloroethene (79-01-6)

ACGIH: 10 ppm TWA
25 ppm STEL

OSHA Final: 100 ppm TWA
200 ppm Ceiling

OSHA Vacated: 50 ppm TWA; 270 mg/m3 TWA
200 ppm STEL; 1080 mg/m3 STEL

Perchloroethylene (127-18-4)

ACGIH: 25 ppm TWA
100 ppm STEL

OSHA Final: 100 ppm TWA
200 ppm Ceiling

OSHA Vacated: 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.

Personal Protective Equipment: Respiratory

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.

Personal Protective Equipment: Eyes/Face

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

Personal Protective Equipment: Skin

Where skin contact is likely, wear impervious gloves. Use of neoprene, natural rubber, polyvinyl chloride 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 Protective Equipment: 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 Personal 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 & Chemical Properties * * *

Appearance/Odor :	Clear and colorless liquid, solvent odor	**pH:**	Not applicable
Boiling Point:	133 to 342ºF (56 to 172ºC)	**Melting Point:**	-200 to -8ºF (-129 to -22ºC)
Solubility (H2O):	Slight.	**Specific Gravity:**	0.83 (water = 1) (approximately)
Density:	6.9 LB/US gal (830 g/L) (approximately)	**Octanol/H2O Coeff.:**	Not available.
Evaporation Rate:	3.7 (butyl acetate = 1) (based on a similar product)	**Molecular Weight:**	Not available.
Odor Threshold:	Not available.	**Auto Ignition Temperature:**	800ºF (427ºC)
LFL:	1 VOL% (approximately)	**Flash Point:**	Less than 70ºF (21ºC) Tag Closed Cup
UFL:	13 VOL% (approximately)		
Vapor Pressure:	86 mm Hg at 68ºF (20ºC) 205 mm Hg at 100ºF (38ºC)		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Stability

Stable under normal temperatures and pressures.

Incompatibility

Avoid acids, alkalies, 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**.

Conditions To Avoid

Avoid heat, sparks, or flame.

* * * Section 11 - Toxicological Information * * *

Toxicity Data

Component Analysis - LD50/LC50

Toluene (108-88-3)
Dermal LD50 Rabbit 12000 mg/kg; Inhalation LC50 Rat 12.5 mg/L 4 h; Oral LD50 Rat 2600 mg/kg

Methyl propyl ketone (107-87-9)
Dermal LD50 Rat 6480 mg/kg; Inhalation LC50 Rat 2000 ppm 4 h; Oral LD50 Rat 1600 mg/kg

Methyl isobutyl ketone (108-10-1)
Dermal LD50 Rabbit 3000 mg/kg; Inhalation LC50 Rat 8.2 mg/L 4 h; Oral LD50 Rat 2080 mg/kg

Ethyl benzene (100-41-4)
Dermal LD50 Rabbit 15400 mg/kg; Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg

Methyl n-amyl ketone (110-43-0)
Dermal LD50 Rabbit 12.6 mL/kg; Inhalation LC50 Rat >2000 ppm 4 h; Oral LD50 Rat 1600 mg/kg

C5 to C8 Aliphatic hydrocarbons (64741-89-5)
Dermal LD50 Rabbit >5 g/kg; Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg

Methyl ethyl ketone (78-93-3)
Dermal LD50 Rabbit 5000 mg/kg; Inhalation LC50 Rat 11700 ppm 4 h; Oral LD50 Rat 2483 mg/kg

Acetone (67-64-1)
Inhalation LC50 Rat 50100 mg/m3 8 h

Ethyl acetate (141-78-6)
Dermal LD50 Rabbit >18000 mg/kg; Inhalation LC50 Mouse 1500 ppm 4 h; Oral LD50 Rat 5620 mg/kg

Isopropyl acetate (108-21-4)
Dermal LD50 Rabbit >20 mL/kg; Inhalation LC50 Rat 50600 mg/m3 8 h; Oral LD50 Rat 3000 mg/kg

Isobutyl acetate (110-19-0)
Dermal LD50 Rabbit >17400 mg/kg; Oral LD50 Rat 15400 mg/kg

Ethyl 3-ethoxypropanoate (763-69-9)
Oral LD50 Rat 3200 mg/kg

Propylene glycol monomethyl ether acetate (108-65-6)
Dermal LD50 Rabbit >5 g/kg; Oral LD50 Rat 8532 mg/kg

n-Butyl acetate (123-86-4)
Dermal LD50 Rabbit >17600 mg/kg; Inhalation LC50 Rat 390 ppm 4 h; Oral LD50 Rat 14.13 mg/kg

Xylenes (o-, m-, p- isomers) (1330-20-7)
Dermal LD50 Rabbit >4350 mg/kg; Inhalation LC50 Rat 29.08 mg/L 4 h; Oral LD50 Rat 3500 mg/kg

tert-Butyl alcohol (75-65-0)
Dermal LD50 Rabbit >2 g/kg; Inhalation LC50 Rat >10000 ppm 4 h; Oral LD50 Rat 2200 mg/kg

Isopropyl alcohol (67-63-0)
Dermal LD50 Rabbit 4059 mg/kg; Inhalation LC50 Rat 72600 mg/m3 4 h; Oral LD50 Rat 1870 mg/kg

Ethyl alcohol (64-17-5)
Inhalation LC50 Rat 124.7 mg/L 4 h

n-Butyl alcohol (71-36-3)
Dermal LD50 Rabbit 3402 mg/kg; Inhalation LC50 Rat >8000 ppm 4 h; Oral LD50 Rat 700 mg/kg

Methyl alcohol (67-56-1)
Inhalation LC50 Rat 22500 ppm 8 h; Oral LD50 Rat 6200 mg/kg

1,1,1-Trichloroethane (71-55-6)
Dermal LD50 Rabbit >15800 mg/kg; Inhalation LC50 Rat 18000 ppm 4 h; Oral LD50 Rat >2000 mg/kg

Methylene chloride (75-09-2)
Inhalation LC50 Rat 53 mg/L 6 h; Oral LD50 Rat 1600 mg/kg

Trichloroethene (79-01-6)
Dermal LD50 Rabbit 29000 mg/kg; Inhalation LC50 Rat 26 mg/L 4 h; Oral LD50 Rat 5400 - 7200 mg/kg

Perchloroethylene (127-18-4)
Dermal LD50 Mouse 2800 mg/kg; Inhalation LC50 Rat 27.8 mg/L 4 h; Oral LD50 Rat 2629 mg/kg

Acute Effects

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., High concentrations of vapor or mist may cause liver or kidney damage., Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death., May be severely irritating to the eyes. May cause tearing, redness, swelling, burns, and eye damage., May cause irritation., Toluene, n-butyl alcohol and methyl alcohol may be absorbed through the skin and cause harm as noted for inhalation., May be harmful if swallowed., May cause throat irritation, nausea, vomiting, and central nervous system effects as noted for inhalation., Aspiration hazard:, Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

Repeated Dose Effects

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.

Based on best current information, there is no known human sensitization associated with this product.

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

Perchloroethylene and tricholorethylene have demonstrated human effects of mutagenicity.

Ethylbenzene has demonstrated animal effects of reproductive toxicity.

Xylene, toluene, methyl ethyl ketone, isopropyl alcohol, methyl alcohol, ethyl alcohol, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, and methylene chloride have demonstrated experimental effects of reproductive toxicity.

Ethylbenzene has demonstrated animal effects of teratogenicity. Toluene, ethyl alcohol, methyl ethyl ketone, N-butyl acetate, isopropyl alcohol, methyl alcohol, n-butyl alcohol, perchloroethylene, trichloroethylene, and 1,1,1-trichloroethane have demonstrated experimental effects of teratogenicity.

Component Carcinogenicity

Toluene (108-88-3)
- **ACGIH:** A4 - Not Classifiable as a Human Carcinogen
- **IARC:** Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Methyl isobutyl ketone (108-10-1)
- **ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
- **OSHA:** Present (select carcinogen)
- **IARC:** Monograph 101 [2012] (Group 2B (possibly carcinogenic to humans))

Ethyl benzene (100-41-4)
- **ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
- **OSHA:** Present (select carcinogen)
- **IARC:** Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

Acetone (67-64-1)
- **ACGIH:** A4 - Not Classifiable as a Human Carcinogen

Xylenes (o-, m-, p- isomers) (1330-20-7)
- **ACGIH:** A4 - Not Classifiable as a Human Carcinogen
- **IARC:** Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

tert-Butyl alcohol (75-65-0)
- **ACGIH:** A4 - Not Classifiable as a Human Carcinogen

Isopropyl alcohol (67-63-0)
- **ACGIH:** A4 - Not Classifiable as a Human Carcinogen
- **IARC:** Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))

Ethyl alcohol (64-17-5)
- **ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
- **OSHA:** Present (select carcinogen)
- **IARC:** Monograph 100E [2012] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages) (Group 1 (carcinogenic to humans))

1,1,1-Trichloroethane (71-55-6)
- **ACGIH:** A4 - Not Classifiable as a Human Carcinogen
- **IARC:** Monograph 71 [1999]; Supplement 7 [1987]; Monograph 20 [1979] (Group 3 (not classifiable))

Methylene chloride (75-09-2)
- **ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
- **OSHA:** 125 ppm STEL (See 29 CFR 1910.1052, 15 min); 12.5 ppm Action Level (See 29 CFR 1910.1052); 25 ppm TWA (See 29 CFR 1910.1052) (specifically regulated carcinogen)
  Present (select carcinogen)
- **NIOSH:** potential occupational carcinogen
- **NTP:** Reasonably Anticipated To Be A Human Carcinogen (Suspect Carcinogen)
- **IARC:** Monograph 110 [in preparation]; Monograph 71 [1999] (Group 2A (probably carcenogenic to humans))

Trichloroethene (79-01-6)
- **ACGIH:** A2 - Suspected Human Carcinogen
- **OSHA:** Present (select carcinogen)
- **NIOSH:** potential occupational carcinogen
- **NTP:** Reasonably Anticipated To Be A Human Carcinogen (Suspect Carcinogen)
- **IARC:** Monograph 106 [2014]; Monograph 63 [1995] (Group 1 (carcinogenic to humans))

Perchloroethylene (127-18-4)
- **ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
- **OSHA:** Present (select carcinogen)
- **NIOSH:** potential occupational carcinogen
- **NTP:** Reasonably Anticipated To Be A Human Carcinogen (Suspect Carcinogen)
- **IARC:** Monograph 106 [2014]; Monograph 63 [1995]; Supplement 7 [1987] (Group 2A (probably carcenogenic to humans))

Target Organ Effects
Brain, liver, kidney, heart and central nervous system.

Sensitization
Based on best current information, there is no known human sensitization associated with this product.

Mutagenicity
Toluene, ethyl benzene, ethyl alcohol, isopropyl alcohol, methyl alcohol, xylene, 1,1,1-trichloroethane, ethyl acetate, methylene chloride and n-butyl alcohol have demonstrated experimental effects of mutagenicity.
Perchloroethylene and tricholorethylene have demonstrated human effects of mutagenicity.
Based on best current information, the other components listed in **SECTION 2** are not mutagens

Reproductive Toxicity
Ethylbenzene has demonstrated animal effects of reproductive toxicity.
Xylene, toluene, methyl ethyl ketone, isopropyl alcohol, methyl alcohol, ethyl alcohol, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, and methylene chloride have demonstrated experimental 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.

Teratogenicity
Ethylbenzene has demonstrated animal effects of teratogenicity. Toluene, ethyl alcohol, methyl ethyl ketone, N-butyl acetate, isopropyl alcohol, methyl alcohol, n-butyl alcohol, perchloroethylene, trichloroethylene, and 1,1,1-trichloroethane have demonstrated experimental effects of teratogenicity.
Based on best current information, the other components listed in **SECTION 2** are not teratogens.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

Toxic to fish/plants.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Toluene (108-88-3)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	15.22 - 19.05 mg/L [flow-through]	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]	
48 Hr EC50 Daphnia magna	5.46 - 9.83 mg/L [Static]	
48 Hr EC50 Daphnia magna	11.5 mg/L	

Methyl propyl ketone (107-87-9)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	1190 - 1290 mg/L [flow-through]	

Methyl isobutyl ketone (108-10-1)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	496 - 514 mg/L [flow-through]	
96 Hr EC50 Pseudokirchneriella subcapitata	400 mg/L	
48 Hr EC50 Daphnia magna	170 mg/L	

Ethyl benzene (100-41-4)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Oncorhynchus mykiss	11.0 - 18.0 mg/L [static]	
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]	
48 Hr EC50 Daphnia magna	1.8 - 2.4 mg/L	

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

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	126 - 137 mg/L [flow-through]	

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

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L	
48 Hr EC50 Daphnia magna	>1000 mg/L	

Methyl ethyl ketone (78-93-3)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	3130 - 3320 mg/L [flow-through]	
48 Hr EC50 Daphnia magna	>520 mg/L	
48 Hr EC50 Daphnia magna	5091 mg/L	
48 Hr EC50 Daphnia magna	4025 - 6440 mg/L [Static]	

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

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Lepomis macrochirus	9.2 mg/L [static]	
72 Hr EC50 Pseudokirchneriella subcapitata	4700 mg/L	

Acetone (67-64-1)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Oncorhynchus mykiss	4.74 - 6.33 mL/L	
96 Hr LC50 Pimephales promelas	6210 - 8120 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	8300 mg/L	
48 Hr EC50 Daphnia magna	10294 - 17704 mg/L [Static]	
48 Hr EC50 Daphnia magna	12600 - 12700 mg/L	

Ethyl acetate (141-78-6)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	220 - 250 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	484 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	352 - 500 mg/L [semi-static]	
48 Hr EC50 Daphnia magna	560 mg/L [Static]	

Ethyl 3-ethoxypropanoate (763-69-9)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	62 mg/L [static]	
48 Hr EC50 Daphnia magna	970 mg/L	

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

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	161 mg/L [static]	
48 Hr EC50 Daphnia magna	>500 mg/L	

n-Butyl acetate (123-86-4)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Lepomis macrochirus	100 mg/L [static]	
96 Hr LC50 Pimephales promelas	17 - 19 mg/L [flow-through]	
72 Hr EC50 Desmodesmus subspicatus	674.7 mg/L	

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

Duration/Test/Species	Concentration/Conditions	Notes
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]	
48 Hr EC50 water flea	3.82 mg/L	
48 Hr LC50 Gammarus lacustris	0.6 mg/L	

tert-Butyl alcohol (75-65-0)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	6130 - 6700 mg/L [flow-through]	
72 Hr EC50 Desmodesmus subspicatus	>1000 mg/L	
48 Hr EC50 Daphnia magna	933 mg/L	
48 Hr EC50 Daphnia magna	4607 - 6577 mg/L [Static]	

Isopropyl alcohol (67-63-0)

Duration/Test/Species	Concentration/Conditions	Notes
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 Desmodesmus subspicatus	>1000 mg/L	
72 Hr EC50 Desmodesmus subspicatus	>1000 mg/L	
48 Hr EC50 Daphnia magna	13299 mg/L	

Ethyl alcohol (64-17-5)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Oncorhynchus mykiss	12.0 - 16.0 mL/L [static]	
96 Hr LC50 Pimephales promelas	>100 mg/L [static]	
96 Hr LC50 Pimephales promelas	13400 - 15100 mg/L [flow-through]	
48 Hr LC50 Daphnia magna	9268 - 14221 mg/L	
48 Hr EC50 Daphnia magna	2 mg/L [Static]	

n-Butyl alcohol (71-36-3)

Duration/Test/Species	Concentration/Conditions	Notes
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 Desmodesmus subspicatus	>500 mg/L	
72 Hr EC50 Desmodesmus subspicatus	>500 mg/L	
48 Hr EC50 Daphnia magna	1983 mg/L	
48 Hr EC50 Daphnia magna	1897 - 2072 mg/L [Static]	

Methyl alcohol (67-56-1)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	28200 mg/L [flow-through]	
96 Hr LC50 Pimephales promelas	>100 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	19500 - 20700 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	18 - 20 mL/L [static]	
96 Hr LC50 Lepomis macrochirus	13500 - 17600 mg/L [flow-through]	

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

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	35.2 - 50.7 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	57 - 90 mg/L [static]	juvenile
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]	
96 Hr LC50 Oncorhynchus mykiss	46 - 59 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	>500 mg/L	
48 Hr LC50 Daphnia magna	>530 mg/L	
48 Hr EC50 Daphnia magna	2384 mg/L	
48 Hr EC50 Daphnia magna	9.7 - 12.8 mg/L [Static]	

Methylene chloride (75-09-2)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	140.8 - 277.8 mg/L [flow-through]	
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	
48 Hr EC50 Daphnia magna	1532 - 1847 mg/L [Static]	
48 Hr EC50 Daphnia magna	190 mg/L	

Trichloroethene (79-01-6)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	31.4 - 71.8 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	39 - 54 mg/L [static]	
96 Hr EC50 Desmodesmus subspicatus	450 mg/L	
96 Hr EC50 Pseudokirchneriella subcapitata	175 mg/L	
48 Hr EC50 Daphnia magna	2.2 mg/L	

Perchloroethylene (127-18-4)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	12.4 - 14.4 mg/L [flow-through]	
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	
48 Hr EC50 Daphnia magna	6.1 - 9.0 mg/L [Static]	

* * * Section 13 - Disposal Considerations * * *

Disposal Instructions

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.

US EPA Waste Number & Descriptions

D001, 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 - Transportation Information * * *

Emergency Response Guide Number

128 Reference *.North American Emergency Response Guidebook*

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

* * * Section 15 - Regulatory Information * * *

Volatile Organic Compounds (As Regulated)

80 to 100 WT%; 5.5 to 6.9 LB/US gal (664 to 830 g/l)
As per 40 CFR Part 51.100(s).

SARA Sections 311/312

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 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does 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 Section 313

Component Analysis

This product contains a "toxic" chemical 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.

Toluene (108-88-3)	1.0 % de minimis concentration
Methyl isobutyl ketone (108-10-1)	1.0 % de minimis concentration
Ethyl benzene (100-41-4)	0.1 % de minimis concentration
Xylenes (o-, m-, p- isomers) (1330-20-7)	1.0 % de minimis concentration
tert-Butyl alcohol (75-65-0)	1.0 % de minimis concentration
Isopropyl alcohol (67-63-0)	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
n-Butyl alcohol (71-36-3)	1.0 % de minimis concentration
Methyl alcohol (67-56-1)	1.0 % de minimis concentration
1,1,1-Trichloroethane (71-55-6)	1.0 % de minimis concentration
Methylene chloride (75-09-2)	0.1 % de minimis concentration
Trichloroethene (79-01-6)	0.1 % de minimis concentration
Perchloroethylene (127-18-4)	0.1 % de minimis concentration

CERCLA

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product contains the following "hazardous substance" 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):

Toluene (108-88-3)	1000 lb final RQ; 454 kg final RQ
Methyl isobutyl ketone (108-10-1)	5000 lb final RQ; 2270 kg final RQ
Ethyl benzene (100-41-4)	1000 lb final RQ; 454 kg final RQ
Methyl ethyl ketone (78-93-3)	5000 lb final RQ; 2270 kg final RQ
Acetone (67-64-1)	5000 lb final RQ; 2270 kg final RQ
Ethyl acetate (141-78-6)	5000 lb final RQ; 2270 kg final RQ
Isobutyl acetate (110-19-0)	5000 lb final RQ; 2270 kg final RQ
n-Butyl acetate (123-86-4)	5000 lb final RQ; 2270 kg final RQ
Xylenes (o-, m-, p- isomers) (1330-20-7)	100 lb final RQ; 45.4 kg final RQ
n-Butyl alcohol (71-36-3)	5000 lb final RQ; 2270 kg final RQ
Methyl alcohol (67-56-1)	5000 lb final RQ; 2270 kg final RQ
1,1,1-Trichloroethane (71-55-6)	1000 lb final RQ; 454 kg final RQ
Methylene chloride (75-09-2)	1000 lb final RQ; 454 kg final RQ
Trichloroethene (79-01-6)	100 lb final RQ; 45.4 kg final RQ
Perchloroethylene (127-18-4)	100 lb final RQ; 45.4 kg final RQ

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.

Component Analysis

Component	CAS #	TSCA
Toluene	108-88-3	Yes
Methyl propyl ketone	107-87-9	Yes
Methyl isobutyl ketone	108-10-1	Yes
Ethyl benzene	100-41-4	Yes
Methyl n-amyl ketone	110-43-0	Yes
C5 to C8 Aliphatic hydrocarbons	64741-89-5	Yes
Methyl ethyl ketone	78-93-3	Yes
C9 to C13 Aliphatic hydrocarbons	8030-30-6	Yes
Acetone	67-64-1	Yes
Ethyl acetate	141-78-6	Yes
Isopropyl acetate	108-21-4	Yes
Isobutyl acetate	110-19-0	Yes
Ethyl 3-ethoxypropanoate	763-69-9	Yes
Propylene glycol monomethyl ether acetate	108-65-6	Yes
n-Butyl acetate	123-86-4	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes
tert-Butyl alcohol	75-65-0	Yes
Isopropyl alcohol	67-63-0	Yes
Ethyl alcohol	64-17-5	Yes
n-Butyl alcohol	71-36-3	Yes
Methyl alcohol	67-56-1	Yes
1,1,1-Trichloroethane	71-55-6	Yes
Methylene chloride	75-09-2	Yes
Trichloroethene	79-01-6	Yes
Perchloroethylene	127-18-4	Yes

State Regulations

This product may contain a detectable amount of benzene CAS 71-43-2, phenylethylene CAS 100-41-2, methylene chloride CAS 75-09-2, tricholorethylene CAS 79-01-6, 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 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.

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	PA	CA
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Methyl propyl ketone	107-87-9	Yes	Yes	Yes	Yes	Yes
Methyl isobutyl ketone	108-10-1	Yes	Yes	Yes	Yes	Yes
Ethyl benzene	100-41-4	Yes	Yes	Yes	Yes	Yes
Methyl n-amyl ketone	110-43-0	Yes	Yes	Yes	Yes	Yes
C5 to C8 Aliphatic hydrocarbons	64741-89-5	No	Yes	No	No	No
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes
C9 to C13 Aliphatic hydrocarbons	8030-30-6	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
Ethyl acetate	141-78-6	Yes	Yes	Yes	Yes	Yes
Isopropyl acetate	108-21-4	Yes	Yes	Yes	Yes	Yes
Isobutyl acetate	110-19-0	Yes	Yes	Yes	Yes	Yes
n-Butyl acetate	123-86-4	Yes	Yes	Yes	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes
tert-Butyl alcohol	75-65-0	Yes	Yes	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes
n-Butyl alcohol	71-36-3	Yes	Yes	Yes	Yes	Yes
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes
1,1,1-Trichloroethane	71-55-6	Yes	Yes	Yes	Yes	Yes
Methylene chloride	75-09-2	Yes	Yes	Yes	Yes	Yes
Trichloroethene	79-01-6	Yes	Yes	Yes	Yes	Yes
Perchloroethylene	127-18-4	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

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.

Component Analysis

Component	CAS #	CAN
Toluene	108-88-3	DSL
Methyl propyl ketone	107-87-9	DSL
Methyl isobutyl ketone	108-10-1	DSL
Ethyl benzene	100-41-4	DSL
Methyl n-amyl ketone	110-43-0	DSL
C5 to C8 Aliphatic hydrocarbons	64741-89-5	DSL
Methyl ethyl ketone	78-93-3	DSL
C9 to C13 Aliphatic hydrocarbons	8030-30-6	DSL
Acetone	67-64-1	DSL
Ethyl acetate	141-78-6	DSL
Isopropyl acetate	108-21-4	DSL
Isobutyl acetate	110-19-0	DSL
Ethyl 3-ethoxypropanoate	763-69-9	DSL
Propylene glycol monomethyl ether acetate	108-65-6	DSL
n-Butyl acetate	123-86-4	DSL
Xylenes (o-, m-, p- isomers)	1330-20-7	DSL
tert-Butyl alcohol	75-65-0	DSL
Isopropyl alcohol	67-63-0	DSL

Ethyl alcohol	64-17-5	DSL
n-Butyl alcohol	71-36-3	DSL
Methyl alcohol	67-56-1	DSL
1,1,1-Trichloroethane	71-55-6	DSL
Methylene chloride	75-09-2	DSL
Trichloroethene	79-01-6	DSL
Perchloroethylene	127-18-4	DSL

Canadian WHMIS Information

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Toluene (108-88-3)	1 %
Methyl propyl ketone (107-87-9)	1 %
Methyl isobutyl ketone (108-10-1)	1 %
Ethyl benzene (100-41-4)	0.1 %
Methyl n-amyl ketone (110-43-0)	1 %
Methyl ethyl ketone (78-93-3)	1 %
Acetone (67-64-1)	1 %
Ethyl acetate (141-78-6)	1 %
Isopropyl acetate (108-21-4)	1 %
Isobutyl acetate (110-19-0)	1 %
n-Butyl acetate (123-86-4)	1 %
tert-Butyl alcohol (75-65-0)	1 %
Isopropyl alcohol (67-63-0)	1 %
Ethyl alcohol (64-17-5)	0.1 %
n-Butyl alcohol (71-36-3)	1 %
Methyl alcohol (67-56-1)	1 %
1,1,1-Trichloroethane (71-55-6)	0.1 %
Methylene chloride (75-09-2)	0.1 %

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).

* * * Section 16 - Other Information * * *

Label/Other Information

Not available.

Revision Information

Regulatory update. Revised format (Sections 2 and 3 switched). Section 1 (Address changed, Revision dates), Section 2 (Cancer information), Section 5 (Fire fields), Section 8 (Added exposure limits), Section 11 (Toxicology fields), Section 12 (Component Ecotoxicity), Section 16 (Revision).

Disclaimer

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 the information or the product to which the information refers. The data contained on this sheet apply to the product as supplier to the user.

End of Sheet 82659