



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ultra Kleen Spray Equipment Solution

SYNONYMS: None.

PRODUCT CODE: 5110, 5111, 5112, 5113, 6827

PRODUCT USE: Solvent applications, coating operations.
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.
5400 Legacy Drive
Cluster II, Building 3
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: 82801

ISSUE: December 14, 2006

ORIGINAL ISSUE: December 14, 2006

SUPERSEDES: NA

PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

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SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear, colorless to pale yellow, moderate odor.

DANGER!

PHYSICAL HAZARDS

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

HEALTH HAZARDS

May be harmful if inhaled.
May be harmful if absorbed through skin.
May irritate the respiratory tract (nose, throat, and lungs), and skin.
May be harmful if swallowed.
May be severely irritating to the eyes.
Suspect cancer hazard. Contains material (less than 15 weight %) which may cause cancer.
Risk of cancer depends on duration and level of exposure.
Contains material which may cause birth defects.
Contains material which may cause central nervous system damage.

ENVIRONMENTAL HAZARDS

Toxic to aquatic life.

OSHA Regulated Chemicals

Ethyl benzene (100-41-4)

Present (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.

SKIN: May cause irritation. Toluene, n-butyl alcohol, 1-propanol, 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)**. 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), central nervous system, liver, kidney, 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 kidney, liver, eye, skin and central nervous system damage. Prolonged or repeated exposure may have reproductive toxicity or teratogenic effects.

CANCER INFORMATION: This product contains ethyl benzene 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 aquatic life. 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	0.1-1, 1-5, 5-10, 10-30, 30-60
67-56-1	Methyl alcohol	Methanol	0.1-1, 1-5, 5-10, 10-30, 30-55
67-64-1	Acetone	Dimethyl ketone	0.1-1, 1-5, 5-10, 10-30, 30-55
78-93-3	Methyl ethyl ketone	2-Butanone	0.1-1, 1-5, 5-10, 10-30, 30-50
108-10-1	Methylisobutyl ketone	Hexone	0.1-1, 1-5, 5-10, 10-30, 30-50
1330-20-7	Xylenes (o-, m-, p- isomers)	Dimethylbenzene	0.1-1, 1-5, 5-10, 10-30, 30-40
109-60-4	n-Propyl acetate	2-Acetoxypropane	0.1-1, 1-5, 5-10, 10-20
64-17-5	Ethyl alcohol	Ethanol	0.1-1, 1-5, 5-10, 10-15
67-63-0	Isopropyl alcohol	Isopropanol	0.1-1, 1-5, 5-10, 10-15
64741-42-0	C5 to C8 aliphatic hydrocarbons	Not available	0.1-1, 1-5, 5-10, 10-15
123-86-4	n-Butyl acetate	1-Acetoxypropane	0.1-1, 1-5, 5-10, 10-15
141-78-6	Ethylacetate	Acetic ester	0.1-1, 1-5, 5-10
100-41-4	Ethyl benzene	Phenylethane	0.1-1, 1-5, 5-10
110-43-0	2-Heptanone	Methyl n-amyl ketone	0.1-1, 1-5, 5-10
71-23-8	n-Propyl alcohol	1-Propanol	0.1-1, 1-5, 5-10
108-65-6	Propylene glycol monomethyl ether acetate	1-Methoxy-2-propanol acetate	0.1-1, 1-5, 5-10
64741-41-9	C9 to C13 aliphatic hydrocarbons	Not available	0.1-1, 1-5, 5-6
110-19-0	Isobutyl acetate	2-Methylpropyl acetate	0.1-1, 1-5
763-69-9	Ethyl 3-ethoxypropanoate	Propanoic acid, 3-ethoxy-, ethyl ester	0.1-1, 1-5
71-36-3	n-Butyl alcohol	1-Butanol	0.1-1, 1-5
108-21-4	Isopropyl acetate	Not available	0.1-1, 1-5

*These ranges represent the actual range which varies with each batch of the product.

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Ketones, liquid, n.o.s., 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:

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.

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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 1-800-468-1760 for additional information.

SECTION 5: FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS:

Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and unidentified organic compounds.

CONDITIONS OF FLAMMABILITY:

Heat, sparks, or flame.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

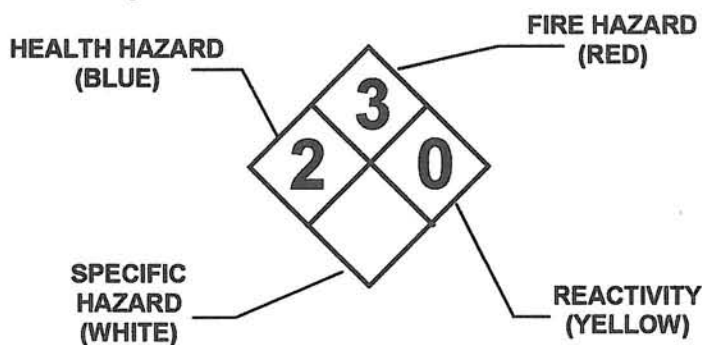
A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

EXTINGUISHING MEDIA:

Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.

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. Vapor 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 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 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 when 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: 50 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

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

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

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

Methylisobutyl 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 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

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NIOSH: 200 ppm TWA; 260 mg/m³ TWA
250 ppm STEL; 325 mg/m³ STEL
Potential for dermal absorption

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

Ethylacetate (141-78-6)

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

n-Propyl acetate (109-60-4)

ACGIH: 200 ppm TWA
250 ppm STEL
OSHA: 200 ppm TWA; 840 mg/m³ TWA
250 ppm STEL; 1050 mg/m³ STEL
NIOSH: 200 ppm TWA; 840 mg/m³ TWA
250 ppm STEL; 1050 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

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

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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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-Propyl alcohol (71-23-8)

ACGIH: 200 ppm TWA
400 ppm STEL
OSHA: 200 ppm TWA; 500 mg/m³ TWA
250 ppm STEL; 625 mg/m³ STEL
NIOSH: 200 ppm TWA; 500 mg/m³ TWA
250 ppm STEL; 625 mg/m³ STEL
Potential for dermal absorption

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

2-Heptanone (110-43-0)

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

Use NIOSH-certified, air-purifying respirators with N-, 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. 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) or equivalent gloves is not recommended.

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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
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**PHYSICAL STATE,
APPEARANCE, AND ODOR:
ODOR THRESHOLD:**

Liquid, clear, colorless to pale yellow, moderate odor.

Not available.

MOLECULAR WEIGHT:

Not available

SPECIFIC GRAVITY:

Not available

DENSITY:

Not available

VAPOR DENSITY:

Not available

VAPOR PRESSURE:

Not available

BOILING POINT:

Not available

FREEZING/MELTING POINT:

Not available

pH:

Not applicable

EVAPORATION RATE:

Not available

SOLUBILITY IN WATER:

Slightly soluble

FLASH POINT:

Not available

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FLAMMABLE LIMITS IN AIR: LOWER: Not available UPPER: Not available

AUTOIGNITION TEMPERATURE: Not available

% VOLATILE: Not available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures. Avoid heat, sparks, or flame.

CONDITIONS TO AVOID: Avoid heat, sparks, or flame 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

TOXICITY DATA:

Component Analysis - LD50/LC50

Toluene (108-88-3)

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

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

Inhalation LC50 Rat: 5000 ppm/4H; Oral LD50 Rat: 4300 mg/kg; Dermal LD50 Rabbit: >1700 mg/kg

Acetone (67-64-1)

Inhalation LC50 Rat: 76 mg/L/4H; Oral LD50 Rat: 1800 mg/kg; Dermal LD50 Rabbit: 20000 mg/kg

Methyl ethyl ketone (78-93-3)

Inhalation LC50 Mouse: 32 g/m³/4H; Oral LD50 Rat: 2600 mg/kg; Dermal LD50 Rabbit: 6400 mg/kg

Methylisobutyl ketone (108-10-1)

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

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Methyl alcohol (67-56-1)

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

Isopropyl acetate (108-21-4)

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

Ethylacetate (141-78-6)

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

n-Propyl acetate (109-60-4)

Oral LD50 Rat: 9370 mg/kg; Dermal LD50 Rabbit: >17760 mg/kg

Isopropyl alcohol (67-63-0)

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

Isobutyl acetate (110-19-0)

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

n-Butyl acetate (123-86-4)

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

Ethyl benzene (100-41-4)

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

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

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

Ethyl alcohol (64-17-5)

Inhalation LC50 Rat: 124.7 mg/L/4H; Oral LD50 Rat: 1501 mg/kg

n-Propyl alcohol (71-23-8)

Inhalation LC50 Rat: >9.8 mg/L/4H; Oral LD50 Rat: 1870 mg/kg; Dermal LD50 Rabbit: 4049 mg/kg

n-Butyl alcohol (71-36-3)

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

Ethyl 3-ethoxypropanoate (763-69-9)

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

2-Heptanone (110-43-0)

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

ACUTE EFFECTS:

Harmful by inhalation, in contact with skin and if swallowed. 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, ethylbenzene, isopropyl alcohol, ethyl alcohol, methyl alcohol, xylene, iso-butyl alcohol, n-butyl alcohol and 1-propanol have demonstrated experimental effects of mutagenicity.

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CARCINOGENICITY:

Toluene, ethylbenzene, ethyl alcohol, methyl ethyl ketone, acetone, isopropryl alcohol, methyl alcohol, 1-propanol and xylene have demonstrated animal effects of teratogenicity.

Toluene, ethylbenzene, xylene, isopropyl alcohol, ethyl alcohol, n-butyl alcohol, acetone and methyl ethyl ketone have demonstrated animal effects of reproductive toxicity. Ethyl benzene is categorized by ACGIH as an animal carcinogen (A3). Ethyl benzene is categorized by IARC as possibly carcinogenic to humans (Group 2B).

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 kidney, liver, eye, skin and central nervous system damage.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

Based upon components, this product is expected to be toxic to aquatic life.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Toluene (108-88-3)

Test & Species

	Conditions	
96 Hr LC50 fathead minnow	25 mg/L	flow-through
96 Hr LC50 rainbow trout	24.0 mg/L	Static
96 Hr LC50 bluegill	24.0 mg/L	Static
96 Hr LC50 fathead minnow	31.7 mg/L	flow-through

Xylene (1330-20-7)

Test & Species

	Conditions	
96 Hr LC50 fathead minnow	13.4 mg/L	flow-through
96 Hr LC50 rainbow trout	8.05 mg/L	
96 Hr LC50 bluegill	16.1 mg/L	

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n-Propyl acetate (109-60-4)
Test & Species

		Conditions
96 Hr LC50 fathead minnow	60 mg/L	flow-through

Isobutyl acetate (110-19-0)
Test & Species

		Conditions
96 Hr LC50 bluegill	100 mg/L	Static

n-Butyl acetate (123-86-4)
Test & Species

		Conditions
96 Hr LC50 fathead minnow	18 mg/L	flow-through
96 Hr LC50 bluegill	100 mg/L	Static
96 Hr EC50 freshwater algae	320 mg/L	

Ethylacetate (141-78-6)
Test & Species

		Conditions
96 Hr LC50 fathead minnow	230 mg/L	flow-through

Ethyl alcohol (64-17-5)
Test & Species

		Conditions
96 Hr LC50 rainbow trout	12900 mg/L	
24 Hr LC50 fingerling trout	11200 mg/L	
96 Hr LC50 fathead minnow	14200 mg/L	flow-through

Methyl alcohol (67-56-1)
Test & Species

		Conditions
96 Hr LC50 fathead minnow	29400 mg/L	flow-through
96 Hr LC50 rainbow trout	13 mg/L	
48 Hr LC50 trout	8000 mg/L	

Isopropyl alcohol (67-63-0)
Test & Species

		Conditions
96 Hr LC50 fathead minnow	94900 mg/L	flow-through
96 Hr LC50 fathead minnow	61200 mg/L	

Acetone (67-64-1)
Test & Species

		Conditions
96 Hr LC50 rainbow trout	5540 mg/L	Static
96 Hr LC50 fathead minnow	6210 mg/L	flow-through
96 Hr LC50 bluegill	8300 mg/L	Static

n-Propyl alcohol (71-23-8)
Test & Species

		Conditions
96 Hr LC50 fathead minnow	4480 mg/L	flow-through

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n-Butyl alcohol (71-36-3)

Test & Species

Conditions

96 Hr LC50 fathead minnow 1510 mg/L Static

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

Test & Species

Conditions

96 Hr LC50 fathead minnow 131.0 mg/L flow-through

Ethyl benzene (100-41-4)

Test & Species

Conditions

96 Hr LC50 rainbow trout 14.0 mg/L Static
96 Hr LC50 fathead minnow 9.09 mg/L flow-through
96 Hr LC50 bluegill 150.0 mg/L Static

Methylisobutyl ketone (108-10-1)

Test & Species

Conditions

96 Hr LC50 fathead minnow 505 mg/L flow-through
24 Hr LC50 goldfish 460 mg/L
96 Hr EC50 freshwater algae 400 mg/L

Methyl ethyl ketone (78-93-3)

Test & Species

Conditions

96 Hr LC50 fathead minnow 3220 mg/L flow-through
96 Hr LC50 bluegill 1690 mg/L

Isobutyl alcohol (78-83-1)

Test & Species

Conditions

96 Hr LC50 fathead minnow 1430 mg/L

DEGRADABILITY: May cause long-term adverse effects in the aquatic environment.

BIOACCUMULATION/AC Product is not expected to bioaccumulate.
CUMULATION:

MOBILITY IN Not available.
ENVIRONMENTAL

MEDIA:

OTHER ADVERSE Toxic to aquatic life. See **SECTION 12: ECOLOGICAL**
EFFECTS: **INFORMATION.**

OCTANOL/WATER Not available.
PARTITION

COEFFICIENT:

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VOLATILE ORGANIC COMPOUNDS: 0 to 100 WT%; 0 to 7.5 LB/US gal (0 to 900 g/l)
As per 40 CFR Part 51.100(s).

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): If discarded, this product is considered a RCRA ignitable waste, D001. Processing, use, or contamination by the user may change the waste code(s) 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

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

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

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

SARA SECTIONS 302 AND 304: Based on the ingredients listed in **SECTION 2**, 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.

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SARA SECTIONS 311 AND 312: This product poses the following health hazards 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" chemicals 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.

Material	CAS
Toluene	108-88-3
Xylene	1330-20-7
Methyl alcohol	67-56-1
Isopropyl alcohol	67-63-0
n-Butyl alcohol	71-36-3
Ethyl benzene	100-41-4
Methylisobutyl ketone	108-10-1
Methyl ethyl ketone	78-93-3

CERCLA: Based on the ingredients listed in SECTION 2, this product contains the following "hazardous substances" 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):

Material	CAS	RQ
Toluene	108-88-3	1000 lb (454kg)
Xylene	1330-20-7	100 lb (45.4kg)
Isobutyl acetate	110-19-0	5000 lb (2270 kg)
n-Butyl acetate	123-86-4	5000 lb (2270 kg)
Ethyl acetate	141-78-6	5000 lb (2270 kg)
Methyl alcohol	67-56-1	5000 lb (2270 kg)
Acetone	67-64-1	5000 lb (2270 kg)
n-Butyl alcohol	71-36-3	5000 lb (2270 kg)
Ethyl benzene	100-41-4	1000 lb (454 kg)
Methylisobutyl ketone	108-10-1	5000 lb (2270 kg)
Methyl ethyl ketone	78-93-3	5000 lb (2270 kg)
Isobutyl alcohol	78-83-1	5000 lb (2270 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.