



Safety Data Sheet

Material Name: SAFETY-KLEEN MINERAL SPIRITS LITES

SDS ID: 820083

*** Section 1 - Identification ***

Product Identifier

SAFETY-KLEEN MINERAL SPIRITS LITES

Product Code

80777

Synonyms

None

Recommended Use

Various

Restrictions on Use

None known.

Manufacturer Information

Safety-Kleen Systems, Inc.

Phone: 1-800-669-5740

2600 North Central Expressway

Suite 200

Richardson, TX 75080

Emergency # 1-800-468-1760

www.safety-kleen.com

Issue Date

October 10, 2014

Supersedes Issue Date

October 25, 2011

Original Issue Date

September 2, 2010

*** Section 2 - Hazard(s) Identification ***

Classification in Accordance with 29 CFR 1910.1200.

Flammable Liquids, Category 3

Acute Toxicity (Inhalation), Category 3

Skin Corrosion / Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 1

Aspiration Hazard, Category 1

Germ Cell Mutagenicity, Category 1B

Carcinogenicity, Category 1A

Specific Target Organ Toxicity - Single Exposure, Category 2 (liver, kidneys, lungs, central nervous system, and brain)

Specific Target Organ Toxicity - Repeated Exposure, Category 1 (central nervous system)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER!

Hazard Statement(s)

Flammable liquid and vapor

Toxic if inhaled

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Causes skin irritation
Causes serious eye damage
May be fatal if swallowed and enters airways
May cause genetic defects
May cause cancer
May cause damage to liver, kidneys, lungs, central nervous system, and brain.
Causes damage to central nervous system through prolonged or repeated exposure.

Precautionary Statement(s)

Prevention

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

Response

In case of fire, use media appropriate for extinction. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Storage

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

Disposal

Dispose in accordance with all applicable regulations.

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

CAS	Component	Percent
64742-88-7	Solvent naphtha (petroleum), medium aliphatic	65-100
127-18-4	Tetrachloroethylene	0-10*
110-43-0	Methyl n-amyl ketone	0-10*
108-88-3	Toluene	0-6*
1330-20-7	Xylenes (o-, m-, p- isomers)	0-6*
71-36-3	n-Butyl alcohol	0-5*
108-21-4	Isopropyl acetate	0-3*
79-01-6	Trichloroethene	0-5*

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Stoddard solvent (8052-41-3).

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*** Section 4 - First Aid Measures ***

Description of Necessary Measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

Skin

IF ON SKIN (or hair): Wash skin with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before use.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion

IF SWALLOWED: 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.

Most Important Symptoms/Effects

Acute

Skin irritation, eye damage, lung damage (from aspiration), liver damage, kidney damage, central nervous system damage, brain damage

Delayed

Mutagenic effects, cancer, central nervous system damage

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

For inhalation, consider oxygen. Increased sensitivity of the heart to Adrenaline (epinephrine) may be caused by overexposure to product. Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

*** Section 5 - Fire-Fighting Measures ***

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Specific Hazards Arising from the Chemical

Flammable liquid and vapor. Vapors or gases may ignite at distant ignition sources and flash back. Most vapors are heavier than air and will spread along ground and collect in low or confined areas (drains, basements, tanks). "Empty" containers may retain residue and can be dangerous. Product may be sensitive to static discharge, which could result in fire or explosion.

Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce oxides of carbon, phosgene, halogenated compounds, hydrogen chloride gas, and unidentified organic compounds.

Special Protective Equipment and Precautions for Firefighters

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

Fire Fighting Measures

Move container from fire area if it can be done without risk. Containers may rupture or explode. Keep storage containers cool with water spray. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Avoid inhalation of material or combustion by-products.

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NFPA Ratings: Health: 3 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Clean Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. 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.

*** Section 7 - Handling and Storage ***

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, or flame. Do not evaporate to dryness or distill, an explosion may occur. 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. Keep container tightly closed. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

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. Empty product containers may retain product residue and can be dangerous. Store locked up.

Incompatibilities

Oxidizing materials, bases, metals, combustible materials, acids, reducing agents, halogens, metal salts, amines

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

Component Exposure Limits

Solvent naphtha (petroleum), medium aliphatic (64742-88-7)

ACGIH: 100 ppm TWA (related to Stoddard solvent)
OSHA Final: 500 ppm TWA; 2900 mg/m³ TWA (related to Stoddard solvent)
OSHA Vacated: 100 ppm TWA; 525 mg/m³ TWA (related to Stoddard solvent)
NIOSH: 350 mg/m³ TWA (related to Stoddard solvent)
1800 mg/m³ Ceiling (15 min, related to Stoddard solvent)

Tetrachloroethylene (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

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

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

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

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

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

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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

Appropriate 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.

Individual Protective Measures, such as Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: safety glasses, gloves, lab coat, or apron.

Eyes/Face Protection

Safety glasses with side shields should be worn at a minimum. Additional protection, such as goggles, face shields, or respirators may be needed depending upon anticipated use and concentrations of mists or vapors. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

Skin Protection

Where skin contact is likely, wear nitrile rubber, laminate (such as Ansell Edmont Barrier® or North Silver Shield/ 4H®) or equivalent protective gloves; use of polyvinyl chloride (PVC), natural rubber (latex) or equivalent gloves is not recommended.

To avoid prolonged or repeated contact with products where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

Respiratory Protection

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.

*** Section 9 - Physical & Chemical Properties ***

Appearance/Odor : Bright, clear, liquid,
hydrocarbon odor

pH: Not available.

Boiling Point: Not available.

Odor Threshold: Not available.

Solubility (H₂O): Not available.

Melting Point: Not available

Density: Not available.

Specific Gravity: 0.83 (water = 1)
(approximately)

Evaporation Rate: Not available.

Octanol/H₂O Coeff.: Not available.

Auto Ignition Temperature: Not available.

Molecular Weight: Not available.

Flash Point: 105°F (40.6°C) (minimum)
Tag Closed Cup

LFL: Not available.

Viscosity: Not available

UFL: Not available.

Vapor Density: Not available.

Vapor Pressure: Not available.

Flammability (solid, gas): Not applicable

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Other Property Information

No additional information is available.

*** Section 10 - Stability & Reactivity ***

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

Conditions To Avoid

Keep away from heat, ignition sources and incompatible materials.

Incompatible Materials

Avoid oxidizing materials, bases, metals, combustible materials, acids, reducing agents, halogens, metal salts, and amines.

Hazardous Decomposition Products

Decomposition and combustion materials may be toxic. Thermal decomposition or combustion products: oxides of carbon, phosgene, halogenated compounds

*** Section 11 - Toxicological Information ***

Toxicity Data and Information

Component Analysis - LD50/LC50

Solvent naphtha (petroleum), medium aliphatic (64742-88-7)

Dermal LD50 Rabbit 3000 mg/kg; Inhalation LC50 Rat >5.28 mg/L 4 h; Oral LD50 Rat >5000 mg/kg

Tetrachloroethylene (127-18-4)

Dermal LD50 Mouse 2800 mg/kg; Inhalation LC50 Rat 27.8 mg/L 4 h; Oral LD50 Rat 2629 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

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

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

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

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

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

Information on Likely Routes of Exposure

Inhalation

Irritation, nausea, vomiting, headache, dizziness, lung congestion, convulsions, unconsciousness, coma, weight loss, tingling sensation, pain in extremities, blood disorders, mutagenic effects, cancer, central nervous system damage, changes in blood pressure, stomach pain, difficulty breathing, irregular heartbeat, disorientation, mood swings, tremors, loss of coordination, visual disturbances, kidney damage, liver damage, brain damage.

Ingestion

Gastrointestinal irritation, nausea, vomiting, diarrhea, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, loss of coordination, lung congestion, lung damage, unconsciousness, mutagenic effects, cancer, liver damage, kidney damage, central nervous system damage, brain damage, changes in blood pressure, stomach pain, mood swings, tremors, visual disturbances, coma, dilated pupils, digestive disorders.

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Skin Contact

Skin irritation, allergic reactions, nausea, loss of appetite, weight loss, difficulty breathing, headache, drowsiness, dizziness, joint pain, loss of coordination, visual disturbances.

Eye Contact

Eye damage, blurred vision, tearing, sensitivity to light.

Immediate Effects

Skin irritation, eye damage, lung damage (from aspiration), liver damage, kidney damage, central nervous system damage, brain damage.

Delayed Effects

Mutagenic effects, cancer, central nervous system damage.

Irritation/Corrosivity

Causes skin irritation and eye damage.

Respiratory Sensitization

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

Skin Sensitization

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

Carcinogenicity

Available data characterizes component(s) of this product as a cancer hazard.

Component Carcinogenicity

Tetrachloroethylene (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 carcinogenic to humans))

Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

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))

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))

Benzene (71-43-2)

ACGIH: A1 - Confirmed Human Carcinogen

OSHA: 5 ppm STEL (See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA (specifically regulated carcinogen)

Present (select carcinogen)

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Known Carcinogen)

IARC: Monograph 100F [2012]; Supplement 7 [1987]; Monograph 29 [1982] (Group 1 (carcinogenic to humans))

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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 carcinogenic to humans))

p-Dichlorobenzene (106-46-7)

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 73 [1999]; Supplement 7 [1987] (Group 2B (possibly carcinogenic to humans))

Germ Cell Mutagenicity

Perchloroethylene has demonstrated experimental effects of mutagenicity.

Toluene has demonstrated experimental effects of mutagenicity.

Trichloroethylene has demonstrated human effects of mutagenicity.

Teratogenicity

perchloroethylene has demonstrated animal effects of teratogenicity.

Trichloroethylene has demonstrated animal effects of teratogenicity.

Toluene has demonstrated human effects of teratogenicity.

Reproductive Effects

Based on best current information, there is no known reproductive toxicity associated with this product.

Specific Target Organ Effects - Single Exposure

Liver, kidneys, lungs, central nervous system, brain

Specific Target Organ Effects - Repeated Exposure

Central nervous system

Aspiration Hazard

This material is an aspiration hazard. May be fatal if swallowed and enters airways.

Medical Conditions Aggravated by Exposure

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

*** Section 12 - Ecological Information ***

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Solvent naphtha (petroleum), medium aliphatic (64742-88-7)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	800 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	450 mg/L	
48 Hr EC50 Daphnia magna	>100 mg/L	

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Tetrachloroethylene (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]	

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

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

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	

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	

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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]	

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	

Persistence and Degradability

No information available for the product.

Bioaccumulation Potential

No information available for the product.

Mobility in Soil

No information available for the product.

Other Adverse Effects

No additional information is available.

*** Section 13 - Disposal Considerations ***

Disposal Methods

Dispose in accordance with all applicable federal, state/regional and local laws and 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...

Hazardous Waste Number(s): D001

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 ***

International Transportation Regulations

DOT Shipping Name: Petroleum distillates, n.o.s. (Contains: Solvent naphtha (petroleum), medium aliphatic)

UN/NA #: UN1268 **Hazard Class:** 3 **Packing Group:** III

Required Label(s): 3

TDG Shipping Name: Petroleum distillates, n.o.s. (Contains: Solvent naphtha (petroleum), medium aliphatic)

UN/NA #: UN1268 **Hazard Class:** 3 **Packing Group:** III

Required Label(s): 3

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*** Section 15 - Regulatory Information ***

Federal Regulations

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 311/312 Hazardous Categories

Acute Health: Yes **Chronic Health:** Yes **Fire:** Yes **Pressure:** No **Reactive:** No

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.

Tetrachloroethylene (127-18-4)	0.1 % de minimis concentration
Toluene (108-88-3)	1.0 % de minimis concentration
Xylenes (o-, m-, p- isomers) (1330-20-7)	1.0 % de minimis concentration
n-Butyl alcohol (71-36-3)	1.0 % de minimis concentration
Trichloroethene (79-01-6)	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):

Tetrachloroethylene (127-18-4)	100 lb final RQ; 45.4 kg final RQ
Toluene (108-88-3)	1000 lb final RQ; 454 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
Trichloroethene (79-01-6)	100 lb final RQ; 45.4 kg final RQ

TSCA Inventory

All the components of this product are listed on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component	CAS #	TSCA
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	Yes
Tetrachloroethylene	127-18-4	Yes
Methyl n-amyl ketone	110-43-0	Yes
Toluene	108-88-3	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes
n-Butyl alcohol	71-36-3	Yes
Isopropyl acetate	108-21-4	Yes
Trichloroethene	79-01-6	Yes

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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
Solvent naphtha (petroleum), medium aliphatic (related to: Stoddard solvent)	64742-88-7	Yes ¹	Yes ¹	Yes ¹	Yes	Yes ¹
Tetrachloroethylene	127-18-4	Yes	Yes	Yes	Yes	Yes
Methyl n-amyl ketone	110-43-0	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes
n-Butyl alcohol	71-36-3	Yes	Yes	Yes	Yes	Yes
Isopropyl acetate	108-21-4	Yes	Yes	Yes	Yes	Yes
Trichloroethene	79-01-6	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
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	DSL
Tetrachloroethylene	127-18-4	DSL
Methyl n-amyl ketone	110-43-0	DSL
Toluene	108-88-3	DSL
Xylenes (o-, m-, p- isomers)	1330-20-7	DSL
n-Butyl alcohol	71-36-3	DSL
Isopropyl acetate	108-21-4	DSL
Trichloroethene	79-01-6	DSL

Canadian WHMIS Information

WHMIS CLASSIFICATION:, B3, D2A, D2B

Component Analysis - WHMIS IDL

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

Solvent naphtha (petroleum), medium aliphatic (64742-88-7)	1 % (related to Stoddard solvent)
Tetrachloroethylene (127-18-4)	1 %
Methyl n-amyl ketone (110-43-0)	1 %
Toluene (108-88-3)	1 %
n-Butyl alcohol (71-36-3)	1 %
Isopropyl acetate (108-21-4)	1 %

* * * Section 16 - Other Information * * *

Revision Information

Reformat to OSHA HazCom 29 CFR 1910.1200 adoption of GHS Revision 3.

Safety Data Sheet

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Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Disclaimer

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, of 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.

End of Sheet 820083