Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SAFETY-KLEEN MINERAL SPIRITS LITES

Product Code

80777

Synonyms

None

Product Use

Various. If this product is used in combination with other products, consult the SDS for those products.

Restrictions on Use

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal. This product is not for sale or use in the State of California.

Trichloroethylene (79-01-6): After June 16, 2025, this chemical/product is and can only be domestically manufactured, imported, processed, or distributed in commerce for the following purposes until the following prohibitions take effect: (1) Processing as an intermediate a) for the manufacture of HFC-134a until June 18, 2033, and b) for all other processing as a reactant/intermediate until December 18, 2026; (2) Industrial and commercial use as a solvent for open-top batch vapor degreasing until December 18, 2025; (3) Industrial and commercial use as a solvent for closed-loop batch vapor degreasing until December 18, 2025, except for industrial and commercial use in batch vapor degreasing for land-based DoD defense systems by Federal agencies and their contractors until December 18, 2029, and except for industrial and commercial use as a solvent for closed-loop batch vapor degreasing necessary for rocket engine cleaning by Federal agencies and their contractors until December 18, 2031, and except for industrial and commercial use of TCE in closed-loop and open-top batch vapor degreasing for essential aerospace parts and components and narrow tubing used in medical devices until December 18, 2031, and except for industrial and commercial use as a solvent for closed-loop batch vapor degreasing for rayon fabric scouring for end use in rocket booster nozzle production by Federal agencies and their contractors until December 18, 2034; (4) Industrial and commercial use in processing aid (a) for lithium battery separator manufacturing until December 18, 2029, and (b) for lead-acid battery separator manufacturing until December 18, 2044, and (c) for specialty polymeric microporous sheet material manufacturing until December 18, 2039, and (d) in process solvent used in battery manufacture; in process solvent used in polymer fiber spinning, fluoroelastomer manufacture and Alcantara manufacture; in extraction solvent used in caprolactam manufacture; and in precipitant used in beta-cyclodextrin manufacture until December 18, 2026; (5) Industrial and commercial uses for vessels of the Armed Forces and their systems, and in the maintenance, fabrication, and sustainment for and of such vessels and systems until December 18, 2034; and (6) Industrial and commercial use for laboratory use (a) for essential laboratory activities until December 18, 2074 and (b) for asphalt testing and recovery using manual centrifuge processes until December 18, 2029 and for asphalt testing and recovery until December 18, 2034.

Tetrachloroethylene (127-18-4): After December 8, 2026 this chemical substance (as defined in TSCA section 3(2))/product cannot be distributed in commerce to retailers for any use. After March 8, 2027, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of PCE equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant/intermediate; (2) Processing into formulation, mixture or reaction product; (3) Processing by repackaging; (4) Recycling; (5) Industrial and commercial use as solvent in open-top batch vapor degreasing; (6) Industrial and commercial use as solvent in closed-loop batch vapor degreasing; (7)

Industrial and commercial use in maskant for chemical milling; (8) Industrial and commercial use as a processing aid in catalyst regeneration in petrochemical manufacturing; (9) Industrial and commercial use as a processing aid in sectors other than petrochemical manufacturing; (10) Industrial and commercial use as solvent for cold cleaning of tanker vessels; (11) Industrial and commercial use as energized electrical cleaner; (12) Industrial and commercial use in laboratory chemicals; (13) Industrial and commercial use in solvent-based adhesives and sealants; (14) Industrial and commercial use in dry cleaning in 3rd generation machines until December 20, 2027; (15) Industrial and commercial use in all dry cleaning and related spot cleaning until December 19, 2034; (16) Export; and (17) Disposal.

Manufacturer Information

Safety-Kleen Systems, Inc.
42 Longwater Drive
Norwell, MA 02061-9149
www.safety-kleen.com

Phone: 1-800-669-5740

Emergency # 1-800-468-1760

Issue Date
February 18, 2025
Supersedes Issue Date
January 27, 2025
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September 2, 2010

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 3
Aspiration Hazard - Category 1
Acute Toxicity - Inhalation - Vapor - Category 3
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 1
Germ Cell Mutagenicity - Category 1B
Carcinogenicity - Category 1A
Reproductive Toxicity - Category 1B
Specific Target Organ Toxicity - Single Exposure - Category 1 (Central Nervous System , liver , respiratory system , kidneys)
Specific Target Organ Toxicity - Single Exposure - Category 2 (Nervous System)
Specific Target Organ Toxicity - Single Exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1 (Central Nervous System , liver , Nervous System , respiratory system , kidneys , Ears)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (heart)

GHS Label Elements
Symbol(s)

Signal Word
Danger
Hazard Statement(s)

Flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Toxic if inhaled.
Causes skin irritation.
Causes serious eye damage.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs.
May cause damage to organs.
May cause respiratory irritation. May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs 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 container tightly closed.
Keep away from heat/sparks/open flame/hot surfaces - No smoking.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Take precautionary measures against static discharge.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response

In case of fire: Use appropriate media to extinguish.
If exposed: Call a POISON CENTER or doctor/physician.
If exposed or concerned: Call a POISON CENTER or doctor/physician.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
Take off contaminated clothing and wash before reuse.
Do NOT induce vomiting.
Immediately call a POISON CENTER or doctor.
Specific treatment (see label).

Storage

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

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	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
79-01-6	Trichloroethene	0-5
108-21-4	Isopropyl acetate	0-3

The chemical identity and/or percentage of composition is being withheld as a trade secret.

Section 4 - FIRST AID MEASURES

Inhalation

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.

Skin

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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.

Ingestion

Do NOT induce vomiting. Immediately get medical attention. 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

May be fatal if swallowed and enters airways. Toxic if inhaled. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Causes damage to organs. Causes damage to central nervous system, lung damage (from aspiration), liver damage, kidney damage, brain damage.

Delayed

May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to central nervous system. Causes damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment 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

Extinguishing Media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Special 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, unidentified organic compounds.

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.

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.

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 Cleaning 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, shoes. Do not smoke when using this product. Keep container tightly closed. Take precautionary measures against static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

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

Store in a well-ventilated place. Keep cool.

Store locked up.

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.

Incompatible Materials

Acids, bases, oxidizing materials, metals, combustible materials, reducing agents, halogens, metal salts, amines.

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)
NIOSH:	350 mg/m3 TWA (related to Stoddard solvent)
	1800 mg/m3 Ceiling 15 min (related to Stoddard solvent)
	20000 mg/m3 IDLH (related to Stoddard solvent)
OSHA (US):	500 ppm TWA ; 2900 mg/m3 TWA (related to Stoddard solvent)
Mexico:	100 ppm TWA [VLE-PPT] (related to Stoddard solvent)
Tetrachloroethylene	**127-18-4**
ACGIH:	25 ppm TWA
	100 ppm STEL
NIOSH:	150 ppm IDLH
OSHA (US):	100 ppm TWA
	200 ppm Ceiling
Mexico:	25 ppm TWA [VLE-PPT]
	100 ppm STEL [PPT-CT]
Methyl n-amyl ketone	**110-43-0**
ACGIH:	50 ppm TWA
NIOSH:	100 ppm TWA ; 465 mg/m3 TWA
	800 ppm IDLH
Europe:	50 ppm TWA ; 238 mg/m3 TWA
	Possibility of significant uptake through the skin

	100 ppm STEL ; 475 mg/m3 STEL
OSHA (US):	100 ppm TWA ; 465 mg/m3 TWA
Mexico:	50 ppm TWA [VLE-PPT]
Toluene	**108-88-3**
ACGIH:	20 ppm TWA
NIOSH:	100 ppm TWA ; 375 mg/m3 TWA
	150 ppm STEL ; 560 mg/m3 STEL
	500 ppm IDLH
Europe:	50 ppm TWA ; 192 mg/m3 TWA
	Possibility of significant uptake through the skin
	100 ppm STEL ; 384 mg/m3 STEL
OSHA (US):	200 ppm TWA
	300 ppm Ceiling
Mexico:	20 ppm TWA [VLE-PPT]
	Skin - potential for cutaneous absorption
Xylenes (o-, m-, p- isomers)	**1330-20-7**
ACGIH:	100 ppm TWA
	150 ppm STEL
Europe:	50 ppm TWA (pure); 221 mg/m3 TWA (pure)
	Possibility of significant uptake through the skin (pure)
	100 ppm STEL (pure); 442 mg/m3 STEL (pure)
OSHA (US):	100 ppm TWA ; 435 mg/m3 TWA
Mexico:	100 ppm TWA [VLE-PPT]
	150 ppm STEL [PPT-CT]
n-Butyl alcohol	**71-36-3**
ACGIH:	20 ppm TWA
NIOSH:	50 ppm Ceiling ; 150 mg/m3 Ceiling

	Potential for dermal absorption
	1400 ppm IDLH (10% LEL)
OSHA (US):	100 ppm TWA ; 300 mg/m3 TWA
Mexico:	20 ppm TWA [VLE-PPT]
	Skin - potential for cutaneous absorption
Trichloroethene	**79-01-6**
ACGIH:	10 ppm TWA
	25 ppm STEL
NIOSH:	SK: SYS-DIR(IRR)-SEN (Aug 2017)
	1000 ppm IDLH
Europe:	Present (Substantial contribution to the total body burden via dermal exposure possible)
	54.7 mg/m3 TWA ; 10 ppm TWA
OSHA (US):	100 ppm TWA
	200 ppm Ceiling
Mexico:	10 ppm TWA [VLE-PPT]
	25 ppm STEL [PPT-CT]
Isopropyl acetate	**108-21-4**
ACGIH:	100 ppm TWA
	150 ppm STEL
NIOSH:	1800 ppm IDLH
OSHA (US):	250 ppm TWA ; 950 mg/m3 TWA
Mexico:	100 ppm TWA [VLE-PPT]
	200 ppm STEL [PPT-CT]

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Tetrachloroethylene (127-18-4)

3 ppm Medium: end-exhaled air Time: prior to shift Parameter: Tetrachloroethylene ; 0.5 mg/l Medium: blood Time: prior to shift Parameter: Tetrachloroethylene

Toluene (108-88-3)

0.02 mg/l Medium: blood Time: prior to last shift of workweek Parameter: Toluene ; 0.03 mg/l Medium:

urine Time: end of shift Parameter: Toluene ; 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

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

1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

Trichloroethene (79-01-6)

15 mg/l Medium: urine Time: end of shift at end of workweek Parameter: Trichloroacetic acid (nonspecific); 0.5 mg/l Medium: blood Time: end of shift at end of workweek Parameter: Trichloroethanol without hydrolysis (nonspecific); Medium: blood Time: end of shift at end of workweek Parameter: Trichloroethylene (semi-quantitative); Medium: end-exhaled air Time: end of shift at end of workweek Parameter: Trichloroethylene (semi-quantitative)

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 Protection Measures, such as Personal Protective Equipment

Eye/face protection

Safety glasses with side shields should be worn at a minimum. Additional protection like goggles, face shields, or respirators may be needed dependent 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.

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.

Glove Recommendations

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.

Protective Materials

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: Gloves, Safety glasses, and Lab coat or apron.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	bright clear liquid	**Physical State**	liquid
Odor	hydrocarbon odor	**Color**	bright , clear
Odor Threshold	Not available	**pH**	Not available
Melting Point	Not available	**Boiling Point**	Not available

Boiling Point Range	Not available	**Freezing point**	Not available
Evaporation Rate	Not available	**Flammability (solid, gas)**	Not available
Autoignition Temperature	Not available	**Flash Point**	40.6 °C (105 °F Minimum)
Lower Explosive Limit	Not available	**Decomposition temperature**	Not available
Upper Explosive Limit	Not available	**Vapor Pressure**	Not available
Vapor Density (air=1)	Not available	**Specific Gravity (water=1)**	0.83 (Approximate Water = 1)
Water Solubility	Not available	**Partition coefficient: n-octanol/water**	Not available
Viscosity	Not available	**Kinematic viscosity**	Not available
Solubility (Other)	Not available	**Density**	Not available
Molecular Weight	Not available.		

Section 10 - STABILITY AND 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

Acids, bases, oxidizing materials, metals, combustible materials, reducing agents, halogens, metal salts, amines.

Hazardous decomposition products

Decomposition and combustion materials may be toxic. Thermal decomposition or combustion products: Oxides of carbon, phosgene, hydrogen chloride gas, halogenated compounds, other unidentified organic compounds.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

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

Skin Contact

Causes skin irritation. May cause an allergic skin reaction, skin irritation, nausea, loss of appetite, weight loss, difficulty breathing, headache, allergic reactions, drowsiness, dizziness, joint pain, loss of coordination, visual disturbances.

Eye Contact

Causes serious eye damage. Causes blurred vision, tearing, sensitivity to light.

Ingestion

May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting, diarrhea, unconsciousness, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, loss of coordination, lung congestion, lung damage, mutagenic effects, cancer, liver damage, kidney damage, central nervous system damage, brain damage, changes in blood pressure, stomach pain, mood swings, tremors, visual disturbances, dilated pupils, digestive disorder, coma.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Solvent naphtha (petroleum), medium aliphatic (64742-88-7)
Oral LD50 Rat >25 mL/kg
Dermal LD50 Rabbit >3000 mg/kg
Inhalation LC50 Rat >13 mg/L 4 h

Tetrachloroethylene (127-18-4)
Oral LD50 Rat 2629 mg/kg
Inhalation LC50 Rat 27.8 mg/L 4 h

Methyl n-amyl ketone (110-43-0)
Oral LD50 Rat 1600 mg/kg
Dermal LD50 Rabbit 12.6 mL/kg
Inhalation LC50 Rat 2000 - 4000 ppm 6 h

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

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

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

Trichloroethene (79-01-6)
Oral LD50 Rat 4920 mg/kg
Dermal LD50 Rabbit 29000 mg/kg
Inhalation LC50 Rat 26 mg/L 4 h

Isopropyl acetate (108-21-4)
Oral LD50 Rat 3000 mg/kg
Dermal LD50 Rabbit >17436 mg/kg
Inhalation LC50 Rat 50600 mg/m3 8 h

Product Toxicity Data

Acute Toxicity Estimate

Dermal	> 2000 mg/kg

Inhalation - Vapor	9.7968 mg/L
Oral	> 2000 mg/kg

Immediate Effects

May be fatal if swallowed and enters airways. Toxic if inhaled. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Causes damage to organs. Causes lung damage (from aspiration), brain damage, liver damage, kidney damage, central nervous system damage.

Delayed Effects

May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Irritation/Corrosivity Data

Causes skin irritation and eye damage. May cause respiratory irritation.

Respiratory Sensitization

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

Dermal Sensitization

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

Component Carcinogenicity

Tetrachloroethylene	**127-18-4**
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 106 [2014] ; Monograph 63 [1995] ; Supplement 7 [1987] (Group 2A (probably carcinogenic to humans))
NTP:	Reasonably Anticipated To Be A Human Carcinogen
DFG:	Category 3 (could be carcinogenic for man)
OSHA:	Present
NIOSH:	potential occupational carcinogen
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
IARC:	Monograph 106 [2014] ; Monograph 63 [1995] (Group 1 (carcinogenic to humans))

NTP:	Known Human Carcinogen
NTP:	Reasonably Anticipated To Be A Human Carcinogen
DFG:	Category 1 (causes cancer in man)
OSHA:	Present
NIOSH:	potential occupational carcinogen

May cause cancer.

Germ Cell Mutagenicity

May cause genetic defects.

Reproductive Toxicity

May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, liver, kidneys, respiratory system.

Specific Target Organ Toxicity - Repeated Exposure

Central nervous system. liver, respiratory system, ears, heart, kidneys.

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 aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

Solvent naphtha (petroleum), medium aliphatic	**64742-88-7**
Fish:	LC50 96 h Pimephales promelas 800 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata 450 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >100 mg/L IUCLID
Tetrachloroethylene	**127-18-4**
Fish:	LC50 96 h Pimephales promelas 12.4 - 14.4 mg/L [flow-through]; LC50 96 h Pimephales promelas 8.6 - 13.5 mg/L [static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oncorhynchus mykiss 4.73 - 5.27 mg/L [flow-through]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >500 mg/L EPA
Invertebrate:	EC50 48 h Daphnia magna 6.1 - 9 mg/L [Static] EPA

Methyl n-amyl ketone	**110-43-0**
Fish:	LC50 96 h Pimephales promelas 126 - 137 mg/L [flow-through]
Toluene	**108-88-3**
Fish:	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oryzias latipes 54 mg/L [static]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID ; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [Static] EPA ; EC50 48 h Daphnia magna 11.5 mg/L IUCLID
Xylenes (o-, m-, p-isomers)	**1330-20-7**
Fish:	LC50 96 h Pimephales promelas 13.4 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L [static]; LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L; LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 19 mg/L; LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L [static]; LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L [static]; LC50 96 h Cyprinus carpio 780 mg/L [semi-static]; LC50 96 h Cyprinus carpio >780 mg/L; LC50 96 h Poecilia reticulata 30.26 - 40.75 mg/L [static]
Invertebrate:	EC50 48 h water flea 3.82 mg/L; LC50 48 h Gammarus lacustris 0.6 mg/L
n-Butyl alcohol	**71-36-3**
Fish:	LC50 96 h Pimephales promelas 1730 - 1910 mg/L [static]; LC50 96 h Pimephales promelas 1740 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 100000 - 500000 µg/L [static]; LC50 96 h Pimephales promelas 1910000 µg/L [static]
Algae:	EC50 96 h Desmodesmus subspicatus >500 mg/L IUCLID ; EC50 72 h Desmodesmus subspicatus >500 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 1983 mg/L IUCLID ; EC50 48 h Daphnia magna 1897 - 2072 mg/L [Static] EPA
Trichloroethene	**79-01-6**

Fish:	LC50 96 h Pimephales promelas 31.4 - 71.8 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 39 - 54 mg/L [static]
Algae:	EC50 96 h Desmodesmus subspicatus 450 mg/L IUCLID ; EC50 96 h Pseudokirchneriella subcapitata 175 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 2.2 mg/L IUCLID

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Other Toxicity

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. 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(s) applicable to the disposal of this product. Contact Safety-Kleen regarding proper recycling or disposal.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Shipping Name: PETROLEUM DISTILLATES, N.O.S. , (Contains: Solvent naphtha (petroleum), medium aliphatic)
Hazard Class: 3
UN/NA #: UN1268
Packing Group: III
Required Label(s): 3

IATA Information:
Shipping Name: PETROLEUM DISTILLATES, N.O.S. , (Contains: Solvent naphtha (petroleum), medium aliphatic)
Hazard Class: 3
UN#: UN1268
Packing Group: III
Required Label(s): 3

IMDG Information:
Shipping Name: PETROLEUM DISTILLATES, N.O.S. , (Contains: Solvent naphtha (petroleum), medium aliphatic)
Hazard Class: 3
UN#: UN1268
Packing Group: III

Required Label(s): 3

TDG Information:
Shipping Name: PETROLEUM DISTILLATES, N.O.S. , (Contains: Solvent naphtha (petroleum), medium aliphatic)
Hazard Class: 3
UN#: UN1268
Packing Group: III
Required Label(s): 3
International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Tetrachloroethylene	**127-18-4**
IBC Code:	Category Y
Methyl n-amyl ketone	**110-43-0**
IBC Code:	Category Z
Toluene	**108-88-3**
IBC Code:	Category Y
Xylenes (o-, m-, p- isomers)	**1330-20-7**
IBC Code:	Category Y
Trichloroethene	**79-01-6**
IBC Code:	Category Y
Isopropyl acetate	**108-21-4**
IBC Code:	Category Z

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Tetrachloroethylene	**127-18-4**
SARA 313:	0.1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
Toluene	**108-88-3**

SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ
Xylenes (o-, m-, p-isomers)	**1330-20-7**
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
n-Butyl alcohol	**71-36-3**
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Trichloroethene	**79-01-6**
SARA 313:	0.1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
TSCA 12b:	Section 5 , 0.1 % de minimus concentration; Section 6 , 0.1 % de minimus concentration

Trichloroethane (79-01-6): After June 16, 2025, this chemical/product is and can only be domestically manufactured, imported, processed, or distributed in commerce for the following purposes until the following prohibitions take effect: (1) Processing as an intermediate a) for the manufacture of HFC-134a until June 18, 2033, and b) for all other processing as a reactant/intermediate until December 18, 2026; (2) Industrial and commercial use as a solvent for open-top batch vapor degreasing until December 18, 2025; (3) Industrial and commercial use as a solvent for closed-loop batch vapor degreasing until December 18, 2025, except for industrial and commercial use in batch vapor degreasing for land-based DoD defense systems by Federal agencies and their contractors until December 18, 2029, and except for industrial and commercial use as a solvent for closed-loop batch vapor degreasing necessary for rocket engine cleaning by Federal agencies and their contractors until December 18, 2031, and except for industrial and commercial use of TCE in closed-loop and open-top batch vapor degreasing for essential aerospace parts and components and narrow tubing used in medical devices until December 18, 2031, and except for industrial and commercial use as a solvent for closed-loop batch vapor degreasing for rayon fabric scouring for end use in rocket booster nozzle production by Federal agencies and their contractors until December 18, 2034; (4) Industrial and commercial use in processing aid (a) for lithium battery separator manufacturing until December 18, 2029, and (b) for lead-acid battery separator manufacturing until December 18, 2044, and (c) for specialty polymeric microporous sheet material manufacturing until December 18, 2039, and (d) in process solvent used in battery manufacture; in process solvent used in polymer fiber spinning, fluoroelastomer manufacture and Alcantara manufacture; in extraction solvent used in caprolactam manufacture; and in precipitant used in beta-cyclodextrin manufacture until December 18, 2026; (5) Industrial and commercial uses for vessels of the Armed Forces and their systems, and in the maintenance, fabrication, and sustainment for and of such vessels and systems until December 18, 2034; and (6) Industrial and commercial use for laboratory use (a) for essential laboratory activities until December 18, 2074 and (b) for asphalt testing and recovery using manual centrifuge processes until December 18, 2029 and for asphalt testing and recovery until December 18, 2034.

Tetrachloroethylene (127-18-4): After December 8, 2026 this chemical substance (as defined in TSCA section 3(2))/product cannot be distributed in commerce to retailers for any use. After March 8, 2027, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a

concentration of PCE equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant/intermediate; (2) Processing into formulation, mixture or reaction product; (3) Processing by repackaging; (4) Recycling; (5) Industrial and commercial use as solvent in open-top batch vapor degreasing; (6) Industrial and commercial use as solvent in closed-loop batch vapor degreasing; (7) Industrial and commercial use in maskant for chemical milling; (8) Industrial and commercial use as a processing aid in catalyst regeneration in petrochemical manufacturing; (9) Industrial and commercial use as a processing aid in sectors other than petrochemical manufacturing; (10) Industrial and commercial use as solvent for cold cleaning of tanker vessels; (11) Industrial and commercial use as energized electrical cleaner; (12) Industrial and commercial use in laboratory chemicals; (13) Industrial and commercial use in solvent-based adhesives and sealants; (14) Industrial and commercial use in dry cleaning in 3rd generation machines until December 20, 2027; (15) Industrial and commercial use in all dry cleaning and related spot cleaning until December 19, 2034; (16) Export; and (17) Disposal.

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Flammable; Carcinogenicity; Acute toxicity; Reproductive Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard; Germ Cell Mutagenicity

U.S. State Regulations

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

Component	CAS	CA	MA	MN	NJ	PA
Solvent naphtha (petroleum), medium aliphatic	**64742-88-7**	Yes	Yes	Yes	Yes	Yes
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
Trichloroethene	**79-01-6**	Yes	Yes	Yes	Yes	Yes
Isopropyl acetate	**108-21-4**	Yes	Yes	Yes	Yes	Yes

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

WARNING

This product can expose you to chemicals including Tetrachloroethylene, Trichloroethene , which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Tetrachloroethylene	**127-18-4**
Carc:	carcinogen , 4/1/1988
Toluene	**108-88-3**

Repro/Dev. Tox	developmental toxicity , 1/1/1991
Trichloroethene	**79-01-6**
Carc:	carcinogen , 4/1/1988
Repro/Dev. Tox	developmental toxicity , 1/31/2014
	male reproductive toxicity , 1/31/14

Component Analysis - Inventory

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

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	No	No	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

Tetrachloroethylene (127-18-4)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
Yes	Yes	Yes	Yes	Yes	Yes	Yes

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

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

Toluene (108-88-3)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
Yes	Yes	Yes	Yes	Yes	Yes	Yes

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

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
Yes	Yes	Yes	Yes	Yes	Yes	Yes

n-Butyl alcohol (71-36-3)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

Trichloroethene (79-01-6)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
Yes	Yes	Yes	Yes	Yes	Yes	Yes

Isopropyl acetate (108-21-4)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 3 Fire: 2 Instability: 0

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

Summary of Changes

Revised 02/18/2025. Revised to incorporate the downstream notification requirements for PCE in §751.613. Revised to incorporate the downstream notification requirements for TCE in §751.321. Language added to Section 15.

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; KR REACH CCA - Korea Registration and Evaluation of Chemical Substances Chemical Control Act; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TH-TECI - Thailand - FDA Existing Chemicals Inventory (TECI); TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

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, of 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.