Safety Data Sheet

Material Name: SAFETY-KLEEN MULTI-USE LACQUER THINNER **SDS ID: 82410**

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SAFETY-KLEEN MULTI-USE LACQUER THINNER

Synonyms

None

Product Use

Lacquer thinner. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

Restrictions on Use

None known.

MANUFACTURER
Safety-Kleen Systems, Inc.
2600 North Central Expressway
Suite 200
Richardson, TX 75080
www.safety-kleen.com

SUPPLIER
Safety-Kleen Canada, Inc.
25 Regan Road
Brampton, Ontario, Canada L1A 1B2

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Emergency Phone #: 1-800-468-1760

Issue Date

June 12, 2019

Supersedes Date

November 6, 2017

Original Issue Date

July 29, 1989

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200

Flammable Liquids - Category 2
Aspiration Hazard - Category 1
Acute Toxicity - Inhalation - Vapor - Category 4
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Germ Cell Mutagenicity - Category 1B
Carcinogenicity - Category 1A
Reproductive Toxicity - Category 1A
Specific Target Organ Toxicity - Single Exposure - Category 1 and Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1 and Category 2

GHS Label Elements

Symbol(s)

Signal Word

Danger

Hazard Statement(s)

Highly flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Harmful if inhaled.
Causes skin irritation, eye irritation, and damage to organs.
May cause genetic defects and cancer and damage fertility or the unborn child.
May cause respiratory irritation and 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, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Use non-sparking tools. Use only outdoors or in a well-ventilated area. Use Personal Protective equipment as required.
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 carbon dioxide, alcohol-resistant foam, dry chemical, or water spray. 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 you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Storage

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

Disposal

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

Statement of Unknown Toxicity

0% of the mixture consists of ingredient(s) of unknown acute toxicity.

Other hazards

None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
108-88-3	Toluene	0-50
67-64-1	Acetone	10-30
64742-89-8	Solvent naphtha (petroleum), light aliphatic	0-35

67-63-0	Isopropyl alcohol	2-15
78-93-3	Methyl ethyl ketone	0-10
763-69-9	Ethyl 3-ethoxypropanoate	0-10
110-19-0	Isobutyl acetate	0-10
108-10-1	Methyl isobutyl ketone	0-5
1330-20-7	Xylenes (o-, m-, p- isomers)	0-5
67-56-1	Methyl alcohol	0-5
71-23-8	N-Propyl alcohol	0-5
64-17-5	Ethyl alcohol	0-1

Additional information

Concentration ranges are used to express batch-to-batch variability in the production of the mixture.

Section 4 - FIRST AID MEASURES

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

IF SWALLOWED: aspiration hazard. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Most Important Symptoms/Effects

Acute

Harmful if inhaled, skin irritation, eye irritation, central nervous system damage, central nervous system depression, kidney damage, liver damage, respiratory system damage, respiratory tract irritation, systemic toxicity, retina damage, aspiration hazard

Delayed

Mutagenic effects, cancer, reproductive effects, central nervous system damage, kidney damage, liver damage, May cause peripheral nervous system damage, retina damage, respiratory system damage, blood disorders

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Special Hazards Arising from the Chemical

Highly flammable liquid and vapor. Avoid friction, static electricity and sparks. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Empty containers may contain product residue. Product may be sensitive to static discharge, which could result in fire or explosion. Run-off to sewer may create a fire hazard.

Hazardous Combustion Products

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

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Apply water from a protected location or from a safe distance. Dike for later disposal.

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. Wear protective equipment and provide engineering controls as specified in SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal. There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.

Section 7 - HANDLING AND STORAGE

Precautions for Safe 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 shoes. Do not smoke while using this product.

Conditions for Safe Storage, Including any Incompatibilities

Store containers below 120°F (49°C) Store locked up. Store in a 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.

Incompatible Materials

Strong acids, strong oxidizing materials, alkalis, reducing agents, reactive halogens, reactive metals.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Toluene	**108-88-3**
Alberta	50 ppm TWA ; 188 mg/m3 TWA; Substance may be readily absorbed through intact skin
British Columbia, Nova Scotia, Prince Edward Island	20 ppm TWA
Manitoba	20 ppm TWA; Skin - potential for cutaneous absorption
New Brunswick	50 ppm TWA ; 188 mg/m3 TWA; Skin - potential for cutaneous absorption
Northwest Territories, Nunavut	50 ppm TWA; 60 ppm STEL; Skin notation
Ontario	20 ppm TWA; Skin notation
Quebec	50 ppm TWAEV ; 188 mg/m3 TWAEV; Skin designation
Saskatchewan	50 ppm TWA; 60 ppm STEL; Potentially harmful after absorption through skin or mucous membranes
Yukon	100 ppm TWA ; 375 mg/m3 TWA; 150 ppm STEL ; 560 mg/m3 STEL; Skin notation
ACGIH	20 ppm TWA
OSHA Final	200 ppm TWA; 300 ppm Ceiling
OSHA Vacated; NIOSH	100 ppm TWA; 375 mg/m3 TWA; 150 ppm STEL; 560 mg/m3 STEL
Acetone	**67-64-1**
Alberta	500 ppm TWA ; 1200 mg/m3 TWA; 750 ppm STEL ; 1800 mg/m3 STEL
British Columbia, Nova Scotia, Prince Edward Island	250 ppm TWA; 500 ppm STEL
Manitoba	250 ppm TWA
New Brunswick	500 ppm TWA ; 1188 mg/m3 TWA; 750 ppm STEL ; 1782 mg/m3 STEL
Northwest Territories, Nunavut, Ontario, Saskatchewan	500 ppm TWA; 750 ppm STEL
Quebec	500 ppm TWAEV ; 1190 mg/m3 TWAEV; 1000 ppm STEV ; 2380 mg/m3 STEV

Yukon	1000 ppm TWA ; 2400 mg/m3 TWA; 1250 ppm STEL ; 3000 mg/m3 STEL
ACGIH	250 ppm TWA; 500 ppm STEL
OSHA Final	1000 ppm TWA; 2400 mg/m3 TWA
OSHA Vacated	750 ppm TWA; 1800 mg/m3 TWA; 2400 mg/m3 STEL; 1000 ppm STEL
NIOSH	250 ppm TWA; 590 mg/m3 TWA
Isopropyl alcohol	**67-63-0**
Alberta	200 ppm TWA ; 492 mg/m3 TWA; 400 ppm STEL ; 984 mg/m3 STEL
British Columbia, Northwest Territories, Nova Scotia, Nunavut; Ontario, Prince Edward Island, Saskatchewan	200 ppm TWA; 400 ppm STEL
Manitoba	200 ppm TWA
New Brunswick	400 ppm TWA ; 983 mg/m3 TWA; 500 ppm STEL ; 1230 mg/m3 STEL
Quebec	400 ppm TWAEV ; 985 mg/m3 TWAEV; 500 ppm STEV ; 1230 mg/m3 STEV
Yukon	400 ppm TWA ; 980 mg/m3 TWA; 500 ppm STEL ; 1225 mg/m3 STEL; Skin notation
ACGIH	200 ppm TWA; 400 ppm STEL
OSHA Final	400 ppm TWA; 980 mg/m3 TWA
OSHA Vacated	400 ppm TWA; 980 mg/m3 TWA; 500 ppm STEL; 1225 mg/m3 STEL
NIOSH	400 ppm TWA; 980 mg/m3 TWA; 500 ppm STEL; 1225 mg/m3 STEL
Methyl ethyl ketone	**78-93-3**
Alberta, New Brunswick	200 ppm TWA ; 590 mg/m3 TWA; 300 ppm STEL ; 885 mg/m3 STEL
British Columbia	50 ppm TWA; 100 ppm STEL
Manitoba	200 ppm TWA
Northwest Territories, Nova Scotia, Nunavut, Ontario, Prince Edward Island, Saskatchewan	200 ppm TWA; 300 ppm STEL
Quebec	50 ppm TWAEV ; 150 mg/m3 TWAEV; 100 ppm STEV ; 300 mg/m3 STEV

Yukon	200 ppm TWA ; 590 mg/m3 TWA; 250 ppm STEL ; 740 mg/m3 STEL
ACGIH	200 ppm TWA; 300 ppm STEL
OSHA Final	200 ppm TWA; 590 mg/m3 TWA
OSHA Vacated; NIOSH	200 ppm TWA; 590 mg/m3 TWA; 300 ppm STEL; 885 mg/m3 STEL
Ethyl 3-ethoxypropanoate	**763-69-9**
Ontario	50 ppm TWA ; 300 mg/m3 TWA
Isobutyl acetate	**110-19-0**
Alberta, New Brunswick	150 ppm TWA ; 713 mg/m3 TWA
British Columbia, Ontario	150 ppm TWA
Manitoba	50 ppm TWA
Northwest Territories, Nunavut, Saskatchewan	150 ppm TWA; 188 ppm STEL
Nova Scotia, Prince Edward Island	50 ppm TWA; 150 ppm STEL
Quebec	150 ppm TWAEV ; 713 mg/m3 TWAEV
Yukon	150 ppm TWA ; 700 mg/m3 TWA; 187 ppm STEL ; 875 mg/m3 STEL
ACGIH	50 ppm TWA; 150 ppm STEL
OSHA Final, OSHA Vacated; NIOSH	150 ppm TWA; 700 mg/m3 STEL
Methyl isobutyl ketone	**108-10-1**
Alberta, New Brunswick	50 ppm TWA ; 205 mg/m3 TWA; 75 ppm STEL ; 307 mg/m3 STEL
British Columbia, Nova Scotia, Ontario, Prince Edward Island, Saskatchewan	20 ppm TWA; 75 ppm STEL
Manitoba	20 ppm TWA
Northwest Territories, Nunavut	50 ppm TWA; 75 ppm STEL
Quebec	50 ppm TWAEV ; 205 mg/m3 TWAEV; 75 ppm STEV ; 307 mg/m3 STEV
Yukon	100 ppm TWA ; 410 mg/m3 TWA; 125 ppm STEL ; 510 mg/m3 STEL; Skin notation
ACGIH	20 ppm TWA; 75 ppm STEL

OSHA Final	100 ppm TWA; 410 mg/m3 TWA
OSHA Vacated, NIOSH	50 ppm TWA; 205 mg/m3 TWA; 75 STEL; 300 mg/m3 STEL
Xylenes (o-, m-, p- isomers)	**1330-20-7**
Alberta, New Brunswick	100 ppm TWA ; 434 mg/m3 TWA; 150 ppm STEL ; 651 mg/m3 STEL
British Columbia, Northwest Territories, Nova Scotia, Nunavut, Ontario, Prince Edward Island, Saskatchewan	100 ppm TWA; 150 ppm STEL
Manitoba	100 ppm TWA
Quebec	100 ppm TWAEV ; 434 mg/m3 TWAEV; 150 ppm STEV ; 651 mg/m3 STEV
Yukon	100 ppm TWA ; 435 mg/m3 TWA; 150 ppm STEL ; 650 mg/m3 STEL; Skin notation
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
Methyl alcohol	**67-56-1**
Alberta	200 ppm TWA ; 262 mg/m3 TWA; 250 ppm STEL ; 328 mg/m3 STEL; Substance may be readily absorbed through intact skin
British Columbia, Northwest Territories; Nunavut; Ontario	200 ppm TWA; Skin notation; 250 ppm STEL
Manitoba	200 ppm TWA; Skin - potential for cutaneous absorption; Skin - potential significant contribution to overall exposure by the cutaneous route
New Brunswick	200 ppm TWA ; 262 mg/m3 TWA; 250 ppm STEL ; 328 mg/m3 STEL Skin - potential for cutaneous absorption
Nova Scotia	200 ppm TWA; 250 ppm STEL; Skin - potential significant contribution to overall exposure by the cutaneous route
Prince Edward Island	200 ppm TWA; 250 ppm STEL
Quebec	200 ppm TWAEV ; 262 mg/m3 TWAEV; 250 ppm STEV ; 328 mg/m3 STEV; Skin designation
Saskatchewan	200 ppm TWA; 250 ppm STEL; Potentially harmful after absorption through skin or mucous membranes

Yukon	200 ppm TWA ; 260 mg/m3 TWA; 250 ppm STEL ; 310 mg/m3 STEL; Skin notation
ACGIH	200 ppm TWA; 250 ppm STEL; Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA Final	200 ppm TWA; 260 mg/m3 TWA
OSHA Vacated	200 ppm TWA; 260 mg/m3 TWA; 250 ppm STEL; 2325 mg/m3 STEL; Prevent or reduce skin absorption
NIOSH	200 ppm TWA; 260 mg/m3 TWA; 250 ppm STEL; 325 mg/m3 STEL; Potential for dermal absorption
n-Propyl alcohol	**71-23-8**
ACGIH:	100 ppm TWA
NIOSH:	200 ppm TWA ; 500 mg/m3 TWA; 250 ppm STEL ; 625 mg/m3 STEL Potential for dermal absorption; 800 ppm IDLH
OSHA (US):	200 ppm TWA ; 500 mg/m3 TWA
Alberta	200 ppm TWA ; 492 mg/m3 TWA 400 ppm STEL ; 984 mg/m3 STEL
British Columbia, Nova Scotia, Ontario, Prince Edward Island	100 ppm TWA
Manitoba	100 ppm TWA; Skin - potential for cutaneous absorption
New Brunswick	200 ppm TWA ; 492 mg/m3 TWA; 250 ppm STEL ; 614 mg/m3 STEL; Skin - potential for cutaneous absorption
Northwest Territories, Nunavut, Saskatchewan	200 ppm TWA; 400 ppm STEL
Quebec	200 ppm TWAEV ; 492 mg/m3 TWAEV; 250 ppm STEV ; 614 mg/m3 STEV; Skin designation
Yukon	200 ppm TWA ; 500 mg/m3 TWA; 250 ppm STEL ; 625 mg/m3 STEL; Skin notation
Ethyl alcohol	**64-17-5**
Alberta; New Brunswick	1000 ppm TWA ; 1880 mg/m3 TWA
British Columbia, Nova Scotia, Ontario, Prince Edward Island	1000 ppm STEL
Northwest Territories, Nunavut, Saskatchewan	1000 ppm TWA; 1250 ppm STEL
Quebec	1000 ppm TWAEV ; 1880 mg/m3 TWAEV
Yukon	1000 ppm TWA ; 1900 mg/m3 TWA; 1000 ppm STEL ; 1900 mg/m3 STEL

ACGIH	1000 ppm STEL
OSHA Final, OSHA Vacated, NIOSH	1000 ppm TWA; 1900 mg/m3 TWA

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

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)

Acetone (67-64-1)

25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

Isopropyl alcohol (67-63-0)

40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

Methyl ethyl ketone (78-93-3)

2 mg/L Medium: urine Time: end of shift Parameter: MEK (nonspecific)

Methyl isobutyl ketone (108-10-1)

1 mg/L Medium: urine Time: end of shift Parameter: MIBK

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

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

n-Propyl alcohol (71-23-8)

Oral LD50 Rat 1870 mg/kg; Dermal LD50 Rabbit 4049 mg/kg; Inhalation LC50 Rat >13548 ppm 4 h

Methyl alcohol (67-56-1)

15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

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. Use explosion-proof equipment. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Skin Protection

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.

Respiratory Protection

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

Glove Recommendations

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

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

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid.	**Physical State**	Liquid
Odor	Solvent.	**Color**	Colorless.
Odor Threshold	Not available	**pH**	Not available
Melting Point	Not available	**Boiling Point**	56 - 172 °C (133 - 342 °F)
Boiling Point Range	Not available	**Freezing point**	Not available
Evaporation Rate	Not available	**Flammability (solid, gas)**	Not available
Autoignition Temperature	377 °C (711 °F Minimum)	**Flash Point**	<-7 °C [Closed Cup.] (20 °F)
Lower Explosive Limit	1 vol% (Minimum)	**Decomposition temperature**	Not available
Upper Explosive Limit	36 vol% (Maximum)	**Vapor Pressure**	Not available
Vapor Density (air=1)	5 (Maximum Air = 1)	**Specific Gravity (water=1)**	0.84 (Water = 1)
Water Solubility	(Slight)	**Partition coefficient: n-octanol/water**	Not available
Viscosity	Not available	**Solubility (Other)**	Not available
Coefficient of Water/Oil Dist	2.73 (Toluene)	**Density**	7 lb/gal (US)
Physical Form	Liquid.	**Molecular Weight**	Not available.
		OSHA Flammability Class	Flammable
Volatile Organic Compounds (As Regulated)	70 to 85 WT%; 5 to 6 LB/US gal (590 to 720 g/l) As per 40 CFR Part 51.100(s). Contains photochemically reactive solvent. VOC Vapor Pressure = 400 mm Hg @ 20°C Consult your state or local air district for location specific information.		

Other Information

No additional information is available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid Heat sparks or flame Avoid contact with incompatible materials.

Incompatible Materials

Acids, alkalies, oxidizing agents, reducing agents, reactive halogens, or reactive metals.

Hazardous decomposition products

Not applicable under normal conditions of use and storage. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Harmful if inhaled. May cause respiratory tract irritation.

Skin Contact

Causes skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

Aspiration Hazard.

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:

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

Acetone (67-64-1)
Oral LD50 Rat 5800 mg/kg; Inhalation LC50 Rat 50100 mg/m3 8 h

Solvent naphtha (petroleum), light aliphatic (64742-89-8)
Oral LD50 Mouse 5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg

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

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

Ethyl 3-ethoxypropanoate (763-69-9)
Oral LD50 Rat 5 g/kg

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

Methyl isobutyl ketone (108-10-1)
Oral LD50 Rat 2080 mg/kg; Dermal LD50 Rabbit 3000 mg/kg; Inhalation LC50 Rat 2000-4000 ppm 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

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

Ethyl alcohol (64-17-5)
Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

Product Toxicity Data

Acute Toxicity Estimate

Unknown.

Immediate Effects

Harmful if inhaled, skin irritation, eye irritation, central nervous system damage, central nervous system depression, kidney damage, liver damage, respiratory system damage, respiratory tract irritation, systemic toxicity, retina damage, aspiration hazard

Delayed Effects

Mutagenic effects, cancer, reproductive effects, central nervous system damage, kidney damage, liver damage, May cause peripheral nervous system damage, retina damage, respiratory system damage, blood disorders

Irritation/Corrosivity Data

Eye irritation, skin irritation, respiratory tract irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Component Carcinogenicity

Toluene	**108-88-3**
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999] ; Monograph 47 [1989] (Group 3 (not classifiable))
Acetone	**67-64-1**
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
Isopropyl alcohol	**67-63-0**
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999] ; Supplement 7 [1987] ; Monograph 15 [1977] (Group 3 (not classifiable))
Methyl isobutyl ketone	**108-10-1**
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 101 [2013] (Group 2B (possibly carcinogenic to humans))
OSHA:	Present
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))
Ethyl alcohol	**64-17-5**
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 100E [2012] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages) (Group 1 (carcinogenic to humans))
DFG:	Category 5 (low carcinogenic potency)
OSHA:	Present

Germ Cell Mutagenicity

Possible mutagen.

Tumorigenic Data

No data available

Reproductive Toxicity

Available data characterizes this substance as a reproductive hazard.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, kidneys, liver, respiratory system, systemic toxicity, retina

Specific Target Organ Toxicity - Repeated Exposure

Central nervous system, kidneys, liver, Peripheral Nervous System, retina, respiratory system, blood

Aspiration hazard

This material is an aspiration hazard.

Medical Conditions Aggravated by Exposure

Blood disorders, central nervous system disorders, eye disorders, kidney disorders, liver disorders, respiratory disorders, skin disorders, peripheral nervous system disorders, systemic disorders

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life. Harmful aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

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
Acetone	**67-64-1**
Fish:	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static]; LC50 96 h Lepomis macrochirus 8300 mg/L
Invertebrate:	EC50 48 h Daphnia magna 10294 - 17704 mg/L [Static] EPA ; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID
Solvent naphtha (petroleum), light aliphatic	**64742-89-8**
Algae:	EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID
Isopropyl alcohol	**67-63-0**
Fish:	LC50 96 h Pimephales promelas 9640 mg/L [flow-through]; LC50 96 h Pimephales promelas 11130 mg/L [static]; LC50 96 h Lepomis macrochirus >1400000 µg/L
Algae:	EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID ; EC50 72 h Desmodesmus subspicatus >1000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 13299 mg/L IUCLID
Methyl ethyl ketone	**78-93-3**

Fish:	LC50 96 h Pimephales promelas 3130 - 3320 mg/L [flow-through]
Invertebrate:	EC50 48 h Daphnia magna >520 mg/L IUCLID ; EC50 48 h Daphnia magna 5091 mg/L IUCLID ; EC50 48 h Daphnia magna 4025 - 6440 mg/L [Static] EPA
Ethyl 3-ethoxypropanoate	**763-69-9**
Fish:	LC50 96 h Pimephales promelas 62 mg/L [static]
Invertebrate:	EC50 48 h Daphnia magna 970 mg/L IUCLID
Methyl isobutyl ketone	**108-10-1**
Fish:	LC50 96 h Pimephales promelas 496 - 514 mg/L [flow-through]
Algae:	EC50 96 h Pseudokirchneriella subcapitata 400 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 170 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
Methyl alcohol	**67-56-1**
Fish:	LC50 96 h Pimephales promelas 28200 mg/L [flow-through]; LC50 96 h Pimephales promelas >100 mg/L [static]; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static]; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through]
n-Propyl alcohol	**71-23-8**
Fish:	LC50 96 h Pimephales promelas 4480 mg/L [flow-through]
Invertebrate:	EC50 48 h Daphnia magna 3642 mg/L IUCLID ; EC50 48 h Daphnia magna 3339 - 3977 mg/L [Static] EPA
Ethyl alcohol	**64-17-5**
Fish:	LC50 96 h Oncorhynchus mykiss 12 - 16 mL/L [static]; LC50 96 h Pimephales promelas >100 mg/L [static]; LC50 96 h Pimephales promelas 13400 - 15100 mg/L [flow-through]
Invertebrate:	LC50 48 h Daphnia magna 9268 - 14221 mg/L IUCLID ; EC50 48 h Daphnia magna 2 mg/L [Static] EPA

Invertebrate Toxicity

No additional information is available.

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable federal, state 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.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
UN/NA #: UN1263
Packing Group: II
Required Label(s): 3 FLAMMABLE LIQUID

IATA Information:
Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
UN#: UN1263
Packing Group: II
Required Label(s): 3 Flammable Liquid

IMDG Information:
Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
UN#: UN1263.
Packing Group: II
Required Label(s): 3 Flammable Liquid

TDG Information:
Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
UN#: UN1263
Packing Group: II
Required Label(s): 3 FLAMMABLE LIQUID

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.

Toluene (108-88-3), Ethyl 3-ethyoxypropanoate (763-69-9), Xylenes (o-, m-, p-isomers)(1330-20-7), methyl alcohol (67-56-1)	
IBC Code:	Category Y

Acetone (67-64-1), Methyl ethyl ketone (78-93-3), Methyl isobutyl ketone (108-10-1)	
IBC Code:	Category Z

Additional information
ERG128

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.

Toluene (108-88-3)	
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ
Acetone (67-64-1), Methyl ethyl ketone (78-93-3), Isobutyl acetate (110-19-0)	
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Isopropyl alcohol (67-63-0)	
SARA 313:	1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
Methyl isobutyl ketone (108-10-1), Methyl alcohol (67-56-1)	
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 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

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

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

Component Analysis - Inventory

Toluene (108-88-3); Acetone (67-64-1);Solvent naphtha (petroleum), light aliphatic (64742-89-8); Isopropyl alcohol (67-63-0); Methyl ethyl ketone (78-93-3);Ethyl 3-ethoxypropanoate (763-69-9); Isobutyl acetate (110-19-0); Methyl isobutyl ketone (108-10-1); Xylenes (o-, m-, p- isomers) (1330-20-7); Methyl alcohol (67-56-1); Ethyl alcohol (64-17-5); n-Propyl alcohol (71-23-8)

US	CA
Yes	DSL

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 2 Fire: 3 Reactivity: 0

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

Summary of Changes

Revision to Section 16.

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EPA - Environmental Protection Agency; F - Fahrenheit; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; 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; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; PEL-Permissible Exposure Limit; RCRA - Resource Conservation and Recovery Act; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; 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 supplied to the user.