



Safety Data Sheet

Material Name: SAFETY-KLEEN PROFESSIONAL BRAKE CLEANER - <45% VOC - Bulk

SDS ID: 820076B

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

SAFETY-KLEEN PROFESSIONAL BRAKE CLEANER - <45% VOC - BULK

Product Code

32071, 32073

Synonyms

None.

Product Use

Brake Parts Cleaner - Non-Chlorinated. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

Restrictions on Use

THIS PRODUCT IS NOT FOR SALE OR USE IN THE STATE OF CALIFORNIA.

MANUFACTURER/SUPPLIER

Safety-Kleen Systems, Inc.
2600 North Central Expressway
Suite 200
Richardson, TX 75080

IMPORTER/DISTRIBUTOR

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

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Emergency Phone #: 1-800-468-1760

Issue Date

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August 23, 2011

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Hazardous Products Regulations (HPR) (SOR/2015-17)

Flammable Liquids - Category 2

Aspiration Hazard - Category 1

Acute Toxicity - Oral - Category 4

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Reproductive Toxicity - Category 1A

Specific Target Organ Toxicity - Single Exposure - Category 1 (central nervous system , retina , systemic toxicity)

Specific Target Organ Toxicity - Single Exposure - Category 3

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

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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 swallowed.
Causes skin irritation.
Causes serious eye irritation.
May damage fertility or the unborn child.
Causes damage to organs.
May cause drowsiness or dizziness.
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, regular dry chemical, and water spray for extinction. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep at rest in a position 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 advice/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. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Rinse mouth.

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(s) of Unknown Acute Toxicity

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

Statement(s) of Unknown Aquatic Toxicity

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

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

Other hazards

None known.

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
67-64-1	Acetone	50-60
67-56-1	Methyl alcohol	20-30
108-88-3	Toluene	20-30

Section 4 - FIRST AID MEASURES

Inhalation

IF INHALED: Remove person to fresh air and keep 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: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most Important Symptoms/Effects

Acute

Harmful if swallowed, aspiration hazard, skin irritation, severe eye irritation, respiratory tract irritation, central nervous system damage, eye damage, systemic toxicity.

Delayed

Causes damage to central nervous system, reproductive effects, kidney damage, blood damage.

Indication of any immediate medical attention and special treatment needed

IF exposed: Call a POISON CENTER or doctor/physician. Treat symptomatically and supportively. Increased sensitivity of the heart to Adrenaline (epinephrine) may be caused by overexposure to product. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Special Hazards Arising from the Chemical

Highly flammable liquid and vapor. Fire may produce irritating, poisonous and/or corrosive fumes. Vapors may cause drowsiness and dizziness. Vapors may form explosive mixture with air. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Runoff may create fire or explosion hazard. Containers may rupture or explode. Empty containers may contain product residue. Products are not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.

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Hazardous Combustion Products

Burning may produce phosgene, chlorides, chloroacetylenes, formaldehyde, peracetic acid, carbon monoxide and unidentified organic compounds.

Fire Fighting Measures

Keep storage containers cool with water spray. Move container from fire area if it can be done without risk. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Stay upwind and keep out of low areas. 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 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. 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/open flames/hot surfaces. No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharges. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated area. Store locked up. Keep container tightly closed. Keep cool. Keep away from heat, sparks, open flame and other ignition sources. See SECTION 14: TRANSPORTATION INFORMATION for Packing Group information.

Incompatible Materials

Acids, alkalis, halogens, oxidizing agents, reducing agents, reactive metals, combustible materials.

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

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, Nunavet, 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 STEL
NIOSH	250 ppm TWA; 590 mg/m3 TWA
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, Nunavet	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
Ontario	200 ppm TWA; 250 ppm STEL; Danger of cutaneous absorption

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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; 325 mg/m3 STEL Prevent or reduce skin absorption
NIOSH	200 ppm TWA; 260 mg/m3 TWA; 250 ppm STEL; 325 mg/m3 STEL Potential for dermal absorption
Toluene	108-88-3
Alberta	50 ppm TWA ; 188 mg/m3 TWA; Substance may be readily absorbed through intact skin
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, Nunavet	50 ppm TWA; 60 ppm STEL; Skin notation
British Columbia, Nova Scotia, Ontario, Prince Edward Island	20 ppm TWA
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	100 ppm TWA; 375 mg/m3 TWA; 150 ppm STEL; 560 mg/m3 STEL

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NIOSH	100 ppm TWA; 375 mg/m ³ TWA; 150 ppm STEL; 560 mg/m ³ STEL
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ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Acetone (67-64-1)

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

Methyl alcohol (67-56-1)

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

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)

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

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.

Respiratory Protection

No respiratory protection is normally required. 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.

Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

Glove Recommendations

Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber 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	Clear, colorless liquid	Physical State	Liquid
Odor	Solvent odor	Color	Clear, colorless
Odor Threshold	Not available	pH	Not available
Melting Point	<-110 °F (<-78 °C)	Boiling Point	271 °F (133 °C)
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	725 °F (385 °C Minimum)	Flash Point	<20 °F (<-7 °C)

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Lower Explosive Limit	1.2 vol% (Lowest component)	Decomposition temperature	Not available
Upper Explosive Limit	7.1 vol% (Lowest component)	Vapor Pressure	Not available
Vapor Density (air=1)	2 (Maximum Air = 1)	Specific Gravity (water=1)	0.82 (Water = 1)
Water Solubility	75 % (Approximate)	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	7 lb/gal (US)	Molecular Weight	Not available
Volatile Organic Compounds (As regulated)	<45 WT% (max); 3.1 lb/ US gal; 372g/L ; U.S EPA 40 CFR 51.100(s) Acetone Vapor Pressure @20°C ~ 184 mmHg Methanol Vapor Pressure @20°C ~ 98 mmHg Toluene Vapor Pressure @20°C ~ 22 mmHg Product contains 20 VOL% photochemically reactive solvent. (toluene) Consult your state or local air district regulations for location specific information.		

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal temperatures and pressures. Avoid heat, sparks and open flame.

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, sparks and flame. Do not eat, drink, or smoke when using this product.

Incompatible Materials

Acids, alkalis, halogens, oxidizing agents, reducing agents, reactive metals, combustible materials.

Hazardous decomposition products

Carbon dioxide, carbon monoxide, unidentified organic compounds. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May displace oxygen and cause rapid suffocation. May cause irritation, nausea, headache, drowsiness, dizziness, and loss of coordination, headache, dizziness, fatigue, and loss of appetite, lung damage (from aspiration). Disorientation and confusion may progress to drowsiness and coma, sometimes with convulsions.

Skin Contact

Causes skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

May be fatal if swallowed and enters airways. Harmful if swallowed. May cause nausea, headache, drowsiness, dizziness, and loss of coordination.

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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:

Acetone (67-64-1)

Oral LD50 Rat 5800 mg/kg; Dermal LD50 Rabbit >15700 mg/kg; Inhalation LC50 Rat 50100 mg/m3 8 h

Methyl alcohol (67-56-1)

Oral LD50 Rat 6200 mg/kg; Inhalation LC50 Rat 22500 ppm 8 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

Product Toxicity Data

Acute Toxicity Estimate

Inhalation - Vapor	> 20 mg/L
Oral	> 2000 mg/kg

Immediate Effects

Aspiration hazard, skin irritation, severe eye irritation, respiratory tract irritation, central nervous system damage, eye damage, systemic toxicity.

Delayed Effects

Causes damage to central nervous system, reproductive effects, kidney damage.

Irritation/Corrosivity Data

Causes skin irritation, severe eye irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Component Carcinogenicity

Acetone	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
Toluene	108-88-3
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999] ; Monograph 47 [1989] (Group 3 (not classifiable))

Germ Cell Mutagenicity

No information available for the product.

Tumorigenic Data

No information available for the product.

Reproductive Toxicity

Available data characterizes components of this product as reproductive hazards.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, retina, systemic toxicity,

Specific Target Organ Toxicity - Repeated Exposure

Central nervous system damage, kidney, retina, blood.

Aspiration hazard

This material is an aspiration hazard.

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Medical Conditions Aggravated by Exposure

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

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life.

Component Analysis - Aquatic Toxicity

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
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]
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

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

D001, D035. Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

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Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: FLAMMABLE LIQUIDS, TOXIC, N.O.S., (Contains: Acetone , Methyl alcohol)

Hazard Class: 3

UN/NA #: UN1992

Packing Group: II

Required Label(s): 3 6.1

IATA Information:

Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S., (Contains: Acetone , Methyl alcohol)

Hazard Class: 3

UN#: UN1992

Packing Group: II

Required Label(s): 3 6.1

TDG Information:

Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S., (Contains: Acetone , Methyl alcohol)

Hazard Class: 3

UN#: UN1992

Packing Group: II

Required Label(s): 3 6.1

Additional information

ERG: 127; Reference: North American Emergency Response Guidebook

Section 15 - REGULATORY INFORMATION

Canada Regulations

CEPA - Priority Substances List

Toluene	108-88-3
	Priority Substance List 1 (substance not considered toxic)

Ozone Depleting Substances

None of this product's components are on the list

Council of Ministers of the Environment - Soil Quality Guidelines

Toluene	108-88-3
Residential and Parkland	0.37 mg/kg coarse (surface (≤ 1.5 m); 0.08 mg/kg fine (surface (≤ 1.5 m); 0.37 mg/kg coarse (subsoil (> 1.5 m); 0.08 mg/kg fine (subsoil (> 1.5 m), Free-phase formation, a circumstance deemed unacceptable by many jurisdictions, occurs when a substance exceeds its solubility limit in soil water. The concentration at which this occurs is dependent on soil texture, porosity, and aeration porosity. Under the assumptions used for this guideline, at concentrations greater than 660 mg/kg in coarse soil, or 680 mg/kg in fine soil, formation of free-phase Toluene will likely occur)

Council of Ministers of the Environment - Water Quality Guidelines

Toluene	108-88-3
Marine Aquatic Life	215 $\mu\text{g/L}$

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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.

Acetone	67-64-1
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Methyl alcohol	67-56-1
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Toluene	108-88-3
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 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

Acetone (67-64-1), Methyl Alcohol (67-56-1), Toluene (108-88-3)

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 comply with WHMIS 2015.

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;

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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.