

Section 1 - PRODUCT AND COMPANY IDENTIFICATION**Material Name**

SAFETY-KLEEN PROFESSIONAL BRAKE CLEANER 45% VOC - AEROSOL

Product Code

32070

Synonyms

None

Product Use

Non-chlorinated brake cleaner. 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

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SUPPLIER

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Section 2 - HAZARDS IDENTIFICATION**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Flammable Aerosols - Category 1

Acute Toxicity - Oral - Category 4

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Reproductive Toxicity - Category 1A, Effects on or via Lactation

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

Safety Data Sheet

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

SDS ID: 820076

Hazard Statement(s)

Extremely flammable aerosol.
Harmful if swallowed.
Causes skin irritation and serious eye irritation.
May damage fertility or the unborn child.
May cause harm to breast-fed children.
Causes damage to organs. (central nervous system, retina, systemic toxicity)
May cause respiratory irritation and cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure. (central nervous system, retina, kidneys)
May cause damage to organs. (blood)

Precautionary Statement(s)

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact during pregnancy/while nursing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition sources. 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

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 ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off immediately contaminated clothing and wash before reuse. 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 SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Rinse mouth.

Storage

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal

Dispose of in accordance with all applicable federal, state and local regulations.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
67-64-1	Acetone	45-55
67-56-1	Methyl alcohol	20-30
108-88-3	Toluene	20-30
124-38-9	Carbon dioxide	5-15

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.

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Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

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: Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Call a poison control center or doctor immediately for treatment advice.

Most Important Symptoms/Effects

Acute

Harmful if swallowed, skin irritation, severe eye irritation, central nervous system damage, central nervous system depression, eye damage, blindness, systemic toxicity. May be fatal if swallowed and enters airways. May displace oxygen and cause rapid suffocation.

Delayed

Causes damage to central nervous system, reproductive effects, eye damage, blindness, blood damage, kidneys.

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

Extremely flammable aerosol. Product may be sensitive to static discharge, which could result in fire or explosion. 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. Fire may produce irritating, poisonous and/or corrosive fumes. Runoff may create fire or explosion hazard. Empty product containers may retain product residue and can be dangerous. Containers may rupture or explode.

Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce carbon dioxide, carbon monoxide, 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: Do not scatter spilled material with high-pressure water streams. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. 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.

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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. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place.

Keep container tightly closed.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Keep cool. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Empty product containers may retain product residue and can be dangerous. Store locked up. See SECTION 14: TRANSPORTATION INFORMATION for Packing Group information.

Incompatible Materials

Acids, alkalis, combustible materials, oxidizing materials, reducing agents, halogens, metals, metal salts, metal carbide.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Acetone	67-64-1
Alberta	500 ppm TWA ; 1200 mg/m ³ TWA; 750 ppm STEL ; 1800 mg/m ³ STEL
British Columbia, Nova Scotia, Prince Edward Island	250 ppm TWA; 500 ppm STEL
Manitoba	250 ppm TWA

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New Brunswick	500 ppm TWA ; 1188 mg/m ³ TWA; 750 ppm STEL ; 1782 mg/m ³ STEL
Northwest Territories, Nunavut, Ontario, Saskatchewan,	500 ppm TWA; 750 ppm STEL
Quebec	500 ppm TWAEV ; 1190 mg/m ³ TWAEV; 1000 ppm STEV ; 2380 mg/m ³ STEV
Yukon	1000 ppm TWA ; 2400 mg/m ³ TWA; 1250 ppm STEL ; 3000 mg/m ³ STEL
ACGIH	250 ppm TWA; 500 ppm STEL
OSHA	1000 ppm TWA; 2400 mg/m ³ TWA
NIOSH	250 ppm TWA; 590 mg/m ³ TWA; 2500 ppm IDLH (10% LEL)
Methyl alcohol	67-56-1
Alberta, New Brunswick, Ontario	200 ppm TWA ; 262 mg/m ³ TWA; 250 ppm STEL ; 328 mg/m ³ STEL; Substance may be readily absorbed through intact skin
British Columbia, Northwest Territories, Nunavut	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
Nova Scotia, Saskatchewan	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/m ³ TWAEV; 250 ppm STEV ; 328 mg/m ³ STEV; Skin designation
Yukon	200 ppm TWA ; 260 mg/m ³ TWA; 250 ppm STEL ; 310 mg/m ³ STEL; Skin notation
ACGIH	200 ppm TWA; 250 ppm STEL; Skin – potential significant contribution to overall exposure by the cutaneous route
OSHA	200 ppm TWA; 260 mg/m ³ TWA

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NIOSH	200 ppm TWA; 260 mg/m ³ TWA; 250 ppm STEL; 325 mg/m ³ STEL; Potential for dermal absorption
Toluene	108-88-3
Alberta	50 ppm TWA ; 188 mg/m ³ TWA; Substance may be readily absorbed through intact skin
British Columbia, Nova Scotia, Ontario, Prince Edward Island	20 ppm TWA
Manitoba	20 ppm TWA; Skin - potential for cutaneous absorption
New Brunswick	50 ppm TWA ; 188 mg/m ³ TWA; Skin - potential for cutaneous absorption
Northwest Territories, Nunavut	50 ppm TWA; 60 ppm STEL; Skin notation
Quebec	50 ppm TWAEV ; 188 mg/m ³ 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/m ³ TWA; 150 ppm STEL ; 560 mg/m ³ STEL; Skin notation
ACGIH	20 ppm TWA
OSHA	200 ppm TWA; 300 ppm Ceiling
NIOSH	100 ppm TWA; 375 mg/m ³ TWA; 150 ppm STEL; 560 mg/m ³ STEL
Carbon dioxide	124-38-9
Alberta, New Brunswick	5000 ppm TWA ; 9000 mg/m ³ TWA; 30000 ppm STEL ; 54000 mg/m ³ STEL
British Colombia	5000 ppm TWA; 15000 ppm STEL
Manitoba	5000 ppm TWA
Northwest Territories, Nova Scotia, Nunavut, Ontario, Prince Edward Island, Saskatchewan	5000 ppm TWA; 30000 ppm STEL
Quebec	5000 ppm TWAEV ; 9000 mg/m ³ TWAEV; 30000 ppm STEV; 54000 mg/m ³ STEV

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Yukon	5000 ppm TWA ; 9000 mg/m3 TWA 15000 ppm STEL ; 27000 mg/m3 STEL
ACGIH	5000 ppm TWA; 30000 ppm STEL
OSHA	5000 ppm TWA; 9000 mg/m3 TWA
NIOSH	NIOSH: 5000 ppm TWA; 9000 mg/m3 TWA 30000 ppm STEL; 54000 mg/m3 STEL; 40000 ppm IDLH

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

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

No respiratory protection is normally required. Use NIOSH air-certified, air-supplied respirators (self-contained breathing apparatus or air-line) respiratory protective equipment when concentration of methanol may exceed applicable exposure limits. Otherwise, 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.

Skin Protection/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. 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.

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.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid, clear and colorless	Physical State	liquid
Odor	mild	Color	clear, 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 (20 °F)
Lower Explosive Limit	1 vol% (Minimum)	Decomposition temperature	Not available
Upper Explosive Limit	36 vol% (Maximum)	Vapor Pressure	126 mmHg @ 20 °C
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	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	7 lb/gal (US)
Physical Form	liquid.	Molecular Weight	Not available
Volatile Organic Compounds (As regulated)			<45 WT% (max); 3.2 lb/US gal; 381 g/L (590 to 720 g/l) U.S EPA 40 CFR 51.100(s) Product vapor pressure approx. ~ 126 mmHg @ 20°C Product contains ~25 VOL% photochemically reactive solvent. 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.

Possibility of Hazardous Reactions

Will not polymerize under normal temperature and pressure conditions.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Acids, alkalis, combustible materials, oxidizing materials, reducing agents, halogens, metals, metal salts, metal carbide.

Hazardous decomposition products

Decomposition products include carbon dioxide, carbon monoxide, and unidentified organic compounds. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

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Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

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

Skin Contact

May cause skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

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

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; Dermal LD50 Rabbit 15840 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

Harmful if swallowed, skin irritation, severe eye irritation, central nervous system depression, central nervous system damage, eye damage, systemic toxicity, blindness. May be fatal if swallowed and enters airways. May displace oxygen and cause rapid suffocation.

Delayed Effects

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

Irritation/Corrosivity Data

Causes skin, eye and respiratory 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

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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 product.

Reproductive Toxicity

Available data characterizes this substance as a reproductive hazard.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, retina, respiratory system, systemic toxicity.

Specific Target Organ Toxicity - Repeated Exposure

Central nervous system, retina, kidneys, blood.

Aspiration hazard

This material is an aspiration hazard.

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

Toxic 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]

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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

Hazardous Waste Number(s): D001. Dispose in accordance with all applicable federal, state/regional and local laws and regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: Consumer Commodity; ORM-D

TDG Information:

Shipping Name: Consumer Commodity; ORM-D

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.

Methyl alcohol	67-56-1
IBC Code:	Category Y
Toluene	108-88-3
IBC Code:	Category Y

Further 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

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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 µg/L

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) reporting categories

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

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
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Carbon dioxide	124-38-9	Yes	Yes	Yes	Yes	Yes

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

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Component Analysis - Inventory

Acetone (67-64-1)

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

Methyl alcohol (67-56-1)

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

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

Carbon dioxide (124-38-9)

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: 2 Fire: 3 Instability: 0

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

Safety Data Sheet

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

SDS ID: 820076

Summary of Changes

Regulatory review and update.

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

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