



Material Safety Data Sheet

Material Name: SAFETY-KLEEN PROFESSIONAL
ALL PURPOSE PENETRANT AND LUBRICANT

ID: 820087

***** Section 1 - Chemical Product and Company Identification *****

Product Code: 32045, 32145

Product Use: Multi purpose penetrant and lubricant. If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

Synonyms: None.

Safety-Kleen Systems, Inc.

Phone: 1-800-669-5740

5360 Legacy Drive

Building 2, Suite 100

Plano, TX 75024

Emergency # 1-800-468-1760

www.safety-kleen.com

Issue Date

6/1/11

Supersedes Issue Date

New MSDS

Original Issue Date

New MSDS.

PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

***** Section 2 - Hazards Identification *****

Emergency Overview

Appearance

Liquid, mild odor

Signal Word

DANGER!

Physical Hazards

Extremely Flammable

Do not puncture - contents under pressure

Health Hazards

May irritate the respiratory tract (nose, throat, and lungs), and skin. May be severely irritating to the eyes. May be harmful if swallowed. May be harmful if inhaled.

Potential Health Effects

Inhalation (Breathing)

High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal

Eyes

May be severely irritating to the eyes.

Skin

May cause irritation leading to dermatitis or blistering.

Ingestion (Swallowing)

May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION (BREATHING)**. Aspiration hazard: Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death. Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal.

Medical Conditions Aggravated by Exposure

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

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Chronic

Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**.
Prolonged or repeated skin contact can cause moderate irritation, defatting, and dermatitis.

Cancer Information

No known carcinogenicity. For more information, see **SECTION 11: CARCINOGENICITY**.
Also see **SECTION 15: CALIFORNIA**.

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

CAS	Component	Percent
Mixture	Vegetable oil	50-75
75-28-5	Isobutane	25-50

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Vegetable oil, Vegetable oils, Butane, branched and linear (68513-65-5).

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

Inhalation (Breathing)

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

Eyes

If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

Skin

Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention. Wash contaminated clothing before reuse. Consider discarding contaminated shoes.

Ingestion (Swallowing)

Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

Notes to Physicians

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 *****

Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce oxides of carbon.

Conditions of Flammability

Heat, sparks, or flame.

Extinguishing Media

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

Protective Equipment For Firefighting

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.
Firefighters should avoid inhaling any combustion products.

Fire Fighting Equipment/Instructions

Keep storage containers cool with water spray.

NFPA Ratings: Health: 1 Fire: 4 Reactivity: 0

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

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Fire and Explosion Hazards

Vapor explosion hazard indoors, outdoors, or in sewers. Vapor may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire or explosion hazard. Heated containers may rupture, explode, or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.

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

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. There may be specific regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION**.

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

Handling Procedures

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, and shoes. Do not smoke when using this product.

Shipping and Storing

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not store above 120°F. Do not store in direct sunlight. 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.

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

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.

Component Exposure Limits

Vegetable oil (Mixture)

OSHA Final: 5 mg/m3 TWA (mist, respirable fraction); 15 mg/m3 TWA (mist, total, related to Vegetable oil)

OSHA Vacated: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction, related to Vegetable oil)

NIOSH: 10 mg/m3 TWA (total mist); 5 mg/m3 TWA (respirable mist, related to Vegetable oil)

Isobutane (75-28-5)

ACGIH: 1000 ppm TWA

NIOSH: 800 ppm TWA; 1900 mg/m3 TWA

Personal Protective Equipment: Respiratory

Use NIOSH-certified, air-supplier respirators (self-contained breathing apparatus or air-line) where concentrations of methanol exceed applicable exposure limits. Use NIOSH-certified, full-face respirators with organic vapor cartridges respiratory protective equipment when concentrations of vapor or mist exceeds applicable exposure limits. 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.

Personal Protective Equipment: Eyes/Face

Wearing chemical goggles is recommended. Contact lenses may be worn with eye protection.

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Personal Protective Equipment: Skin

Where skin contact is likely, wear chemical impervious 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.

Personal Protective Equipment: Personal Hygiene

Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

Other Personal Protective Equipment

Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

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

Appearance:	Amber liquid	Odor:	Mild
Physical State:	Liquid, under pressure	pH:	Not applicable
Boiling Point:	11°F	Melting Point:	Not available
Solubility (H2O):	Slight	Specific Gravity:	0.7335 (water = 1)
Density:	Not available	Octanol/H2O Coeff.:	Not available
Evaporation Rate:	Faster than butyl acetate	Molecular Weight:	Not available
Odor Threshold:	Not available.	Auto Ignition:	Not available
LFL:	1.8%	Flash Point:	-117°F
UFL:	8.4%	Vapor Density:	Not available
Vapor Pressure:	Not available	Freezing Point:	Not available
Flammability Class:	Flammable		

***** Section 10 - Chemical Stability & Reactivity Information *****

Stability

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

Incompatibility

Avoid acids, alkalies, oxidizing agents, reducing agents, reactive halogens, or reactive metals.

Reactivity

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

Hazardous Decomposition Products

None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

Conditions To Avoid

Keep away from heat, ignition sources and incompatible materials.

***** Section 11 - Toxicological Information *****

Component Analysis - LD50/LC50

Isobutane (75-28-5)

Inhalation LC50 Rat 658 mg/L 4 h

Acute Effects

May irritate the respiratory tract (nose, throat, and lungs), and skin. May be severely irritating to the eyes. May be harmful if swallowed, absorbed through skin or if inhaled. High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal. May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

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Repeated Dose Effects

Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Target Organ Effects

Prolonged or repeated skin contact can cause moderate irritation, defatting, and dermatitis.

Sensitization

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

Mutagenicity

No information available for this product.

Teratogenicity

No information available for this product.

Toxicologically Synergistic Products

No information available for this product.

***** Section 12 - Ecological Information *****

Ecotoxicity

Generally not expected to cause adverse effects.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Not available.

Persistence/Degradability

No information available for this product.

Bioaccumulation/Accumulation

No information available for this product.

Mobility in Environmental Media

No information available for this product.

Other Adverse Effects

No information available for this product.

***** Section 13 - Disposal Considerations *****

Disposal Instructions

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.

US EPA Waste Number & Descriptions

D001. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

***** Section 14 - Transportation Information *****

Emergency Response Guide Number

126 Reference *North American Emergency Response Guidebook*

DOT

Shipping Name: Aerosols
UN/NA #: UN1950 Hazard Class: 2.1
Required Label(s): 2.1

TDG

Shipping Name: Aerosols
UN/NA #: UN1950 Hazard Class: 2.1
Required Label(s): 2.1

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***** Section 15 - Regulatory Information *****

Volatile Organic Compounds (As Regulated)

39.9 WT%; 2.43 LB/US gal; 292 g/L; As per 40 CFR Part 51.100(s)

Product does not contain photochemically reactive solvent.

SARA Sections 302 & 304

Based on the ingredients listed in Section 2, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA Sections 311 & 312

Based on the ingredients listed in Section 2, this product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of Section 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard

Fire Hazard

Pressurized Gas Hazard

SARA Section 313

Based on the ingredients listed in Section 2, this product does not contain any "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA

Based on the ingredients listed in Section 2, this product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

TSCA

All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component Analysis

Component	CAS #	TSCA
Vegetable oil	Mixture	No
Isobutane	75-28-5	Yes

California

This product does not contain detectable amounts of any chemical known to the State of California to cause cancer.

Component Analysis - State

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

Component	CAS	CA	MA	MN	NJ	PA	RI
Vegetable oil (*related to: Vegetable oil)	Mixture	No	Yes 1	Yes 1	No	Yes 1	Yes 1
Isobutane	75-28-5	No	Yes	No	Yes	Yes	No

Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Component Analysis

Component	CAS #	CAN
Vegetable oil	Mixture	No
Isobutane	75-28-5	DSL

Canadian WHMIS Information

Class B5 - Flammable Aerosols Class D2B - Irritating to eyes and skin.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

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Canadian Environmental Protection Act (CEPA)

All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

***** Section 16 - Other Information *****

Label/Other Information

Not available.

Revision Information

New MSDS.

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.

End of Sheet 820087