



Safety Data Sheet

Material Name: SAFETY-KLEEN PROFESSIONAL HEAVY DUTY CLEANER
DEGREASER CONCENTRATE

SDS ID: 82991

*** Section 1 - Identification ***

Product Identifier

SAFETY-KLEEN PROFESSIONAL HEAVY DUTY CLEANER DEGREASER CONCENTRATE

Product Code

819, 820, 821, 822

Synonyms

Not available

Recommended Use

Cleaner and Degreaser. If this product is used in combination with other products, refer to the Safety Data Sheets for those products.

Restrictions on Use

None known.

Manufacturer Information

Safety-Kleen Systems, Inc.
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Suite 400
Richardson, TX 75080

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Emergency # 1-800-468-1760

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September 1, 2005

*** Section 2 - Hazard(s) Identification ***

Classification in Accordance with 29 CFR 1910.1200.

Skin Corrosion / Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2A

Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory tract)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

WARNING!

Hazard Statement(s)

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

Precautionary Statement(s)

Prevention

Wash thoroughly after handling. Wear protective gloves and eye/face protection. Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area.

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Response

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

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

Disposal

Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified

No additional information is available.

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

CAS	Component	Percent
7732-18-5	Water	75-100
34590-94-8	Dipropylene glycol monomethyl ether	1-5
68439-57-6	Sodium alkyl olefin sulfonate	1-4
1569-01-3	2-Propanol, 1-propoxy-	1-3
34398-01-1	Poly(oxy-1,2-ethanediyl), α -undecyl- ω -hydroxy-	1-3
6834-92-0	Silicic acid, disodium salt	1-2

Component Information/Information on Non-Hazardous Components

* Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

PRODUCT DILUTION FOR USE ranges are as follows:

LIGHT: 1 to 50 with water.

MEDIUM: 1 to 20 with water.

HEAVY: 1 to 4 with water.

Actual WT% of product constituents will vary according to dilution.

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

Description of Necessary 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: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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: get medical attention.

Most Important Symptoms/Effects

Acute

Respiratory tract irritation, skin irritation, eye irritation.

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Delayed

No information on significant adverse effects.

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

*** Section 5 - Fire-Fighting Measures ***

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Chemical

Product may burn, but does not ignite readily.

Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and unidentified organic compounds.

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.

Fire Fighting Measures

Keep storage containers cool with water spray.

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

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

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

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Clean Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

*** 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 tools. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not eat, drink, or smoke when using this product. Wear protective gloves and eye/face protection. Wash thoroughly after handling.

MIX RATIO	g/L VOC	VOC CONCENTRATION (WT%)
LIGHT: 1 part concentrate: 50 parts water	1.6	0.15
MEDIUM: 1 part concentrate: 20 parts water	3.8	0.37
HEAVY (FOR CALIFORNIA): 1 part concentrate: 15 parts water	5.0	0.48
HEAVY: 1 part concentrate: 4 parts water (NOT FOR USE IN CALIFORNIA)	15.8	1.54

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Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry, well-ventilated place. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. Store between 40-90°F (4°C-32°C). Prevent product from freezing. Store locked up.

Incompatibilities

strong acids, oxidizing materials, combustible materials

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

Dipropylene glycol monomethyl ether (34590-94-8)

ACGIH: 100 ppm TWA

150 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 100 ppm TWA; 600 mg/m³ TWA

prevent or reduce skin absorption

OSHA Vacated: 100 ppm TWA; 600 mg/m³ TWA

150 ppm STEL; 900 mg/m³ STEL

Prevent or reduce skin absorption

NIOSH: 100 ppm TWA; 600 mg/m³ TWA

150 ppm STEL; 900 mg/m³ STEL

Potential for dermal absorption

Appropriate 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.

Individual Protective Measures, such as Personal Protective Equipment

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.

Eyes/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.

Skin Protection

Wear chemical resistant protective gloves; use of natural rubber or equivalent gloves is not recommended.

Where spills are likely, wear appropriate chemical-resistant apron, coveralls, long sleeve shirts, or other protective clothing.

Respiratory Protection

Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

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

Appearance/Odor : Yellow liquid, Sassafras odor	pH: 12.7 in undiluted form; 12.3 at 1:4 dilution 11.5 at 1:20 dilution 11.1 at 1:50 dilution
Boiling Point: >200°F (93°C)	Odor Threshold: Not available
Solubility (H2O): Complete	Melting Point: Not available
Density: 8.52 to 8.62 LB/US gal (1020 to 1034 g/L)	Specific Gravity: 1.029(water = 1)
Evaporation Rate: 1 (butyl acetate = 1)	Octanol/H2O Coeff.: Not available
LFL: Not Available	Auto Ignition Temperature: Not Available
UFL: Not Available	Flash Point: >200°F (93.3°C)
Vapor Pressure: Not available	Vapor Density: Not available

Other Property Information

No additional information is available.

*** Section 10 - Stability & Reactivity ***

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

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

Conditions To Avoid

Avoid excessive heat and ignition sources.

Incompatible Materials

Acids, oxidizing materials, combustible materials.

Hazardous Decomposition Products

Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and unidentified organic compounds.

*** Section 11 - Toxicological Information ***

Toxicity Data and Information

Component Analysis - LD50/LC50

Sodium alkyl olefin sulfonate (68439-57-6)

Dermal LD50 Rabbit 6300 mg/kg; Oral LD50 Rat 2310 mg/kg

Dipropylene glycol monomethyl ether (34590-94-8)

Dermal LD50 Rabbit 9500 mg/kg; Oral LD50 Rat 5230 mg/kg

2-Propanol, 1-propoxy- (1569-01-3)

Dermal LD50 Rabbit 3550 mg/kg; Oral LD50 Rat 2490 mg/kg

Silicic acid, disodium salt (6834-92-0)

Oral LD50 Rat 600 mg/kg

Information on Likely Routes of Exposure

Inhalation

May cause respiratory tract irritation. May cause headache, drowsiness, dizziness, loss of coordination, liver effects, cough, difficulty breathing, chest pain, and lung congestion.

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Ingestion

May cause headache, drowsiness, dizziness, loss of coordination, nausea, and vomiting.

Skin Contact

Causes skin irritation. May cause weight loss, headache, drowsiness, dizziness, loss of coordination, and kidney damage.

Eye Contact

Causes serious eye irritation.

Immediate Effects

Respiratory tract irritation, skin irritation, eye irritation.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity

Respiratory tract irritation, skin irritation, eye irritation.

Respiratory Sensitization

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

Skin Sensitization

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

Carcinogenicity

Component Carcinogenicity

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

Germ Cell Mutagenicity

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

Teratogenicity

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

Reproductive Effects

Based on best current information, there is no known reproductive toxicity associated with this product.

Also see **Section 15: California**.

Specific Target Organ Effects - Single Exposure

No target organs identified.

Specific Target Organ Effects - Repeated Exposure

No target organs identified.

Aspiration Hazard

No data available.

Medical Conditions Aggravated by Exposure

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

* * * Section 12 - Ecological Information * * *

Ecotoxicity

Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium alkyl olefin sulfonate (68439-57-6)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Brachydanio rerio	1.0 - 10.0 mg/L [static]	
96 Hr LC50 Brachydanio rerio	12.2 mg/L [semi-static]	

Dipropylene glycol monomethyl ether (34590-94-8)

Duration/Test/Species	Concentration/Conditions	Notes
96 Hr LC50 Pimephales promelas	>10000 mg/L [static]	
48 Hr LC50 Daphnia magna	1919 mg/L	

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Silicic acid, disodium salt (6834-92-0)

Duration/Test/Species

96 Hr LC50 Brachydanio rerio
96 Hr LC50 Brachydanio rerio

Concentration/Conditions

210 mg/L [semi-static]
210 mg/L

Notes

Persistence and Degradability

No information available for the product.

Bioaccumulation Potential

No information available for the product.

Mobility in Soil

No information available for the product.

Other Adverse Effects

No additional information is available.

*** Section 13 - Disposal Considerations ***

Disposal Methods

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.

D002 for undiluted product. For waste disposal purposes, diluted products with a pH between 2.1 and 12.4 is not defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261). 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 - Transport Information ***

Emergency Response Guide Number

Not applicable.

Transportation Regulations

DOT **Shipping Name:** Not regulated as a hazardous material.

TDG **Shipping Name:** Not regulated as a dangerous good.

*** Section 15 - Regulatory Information ***

Volatile Organic Compounds (As Regulated)

7.7% or less, depending on use dilution.

As per U.S EPA 40 CFR 51.100(s)

See Section 7, Handling and Storage, for VOC of diluted product.

Consult your state or local air district regulations for location specific information.

Federal Regulations

SARA 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, 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 311/312 Hazardous Categories

This product poses the following health hazards as defined in 40 CFR Part 370 and are subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard

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SARA Section 313

Component Analysis

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

Component Analysis

Based on the ingredient(s) listed in SECTION 3, 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 Inventory

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
Water	7732-18-5	Yes
Sodium alkyl olefin sulfonate	68439-57-6	Yes
Dipropylene glycol monomethyl ether	34590-94-8	Yes
Poly(oxy-1,2-ethanediyl), α -undecyl- ω -hydroxy-	34398-01-1	Yes
2-Propanol, 1-propoxy-	1569-01-3	Yes
Silicic acid, disodium salt	6834-92-0	Yes

U.S. State Regulations

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

Component	CAS	MA	MN	NJ	PA	CA
Dipropylene glycol monomethyl ether	34590-94-8	Yes	Yes	Yes	Yes	Yes

No component(s) are listed under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

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
Water	7732-18-5	DSL
Sodium alkyl olefin sulfonate	68439-57-6	DSL
Dipropylene glycol monomethyl ether	34590-94-8	DSL
Poly(oxy-1,2-ethanediyl), α -undecyl- ω -hydroxy-	34398-01-1	DSL
2-Propanol, 1-propoxy-	1569-01-3	DSL
Silicic acid, disodium salt	6834-92-0	DSL

Canadian WHMIS Information

Class D2B - Irritating.

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Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Dipropylene glycol monomethyl ether (34590-94-8)	1 %
Silicic acid, disodium salt (6834-92-0)	1 %

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

Reformat to OSHA HazCom 29 CFR 1910.1200 adoption of GHS Revision 3.

Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Disclaimer

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 82991