



## Safety Data Sheet

Material Name: SAFETY-KLEEN PROFESSIONAL BUG & TAR REMOVER

SDS ID: 820183

### \*\*\* Section 1 - Identification \*\*\*

**Material Name**

SAFETY-KLEEN PROFESSIONAL BUG & TAR REMOVER

**Product Code**

32051

**Synonyms**

None

**Product Use**

Dissolves and removes bug deposits, tree sap, and road grime, such as road tar, roadway paint markings, and asphalt from painted motor vehicle surfaces. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

**Restrictions on Use**

None

**MANUFACTURER**

Safety-Kleen Systems, Inc.  
42 Longwater Drive  
Norwell, MA 02061-9149  
www.safety-kleen.com

**SUPPLIER (in Canada)**

Safety-Kleen Canada, Inc.  
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**Issue Date**

November 18, 2021

**Supersedes Issue Date**

February 13, 2018

**Original Issue Date**

September 29, 2014

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

**Classification in Accordance with 29 CFR 1910.1200.**

- Flammable Aerosols, Category 2
- Aspiration Hazard, Category 1
- Skin Corrosion / Irritation, Category 2
- Eye Damage / Irritation, Category 1
- Skin sensitization - Category 1
- Carcinogenicity, Category 2
- Toxic to Reproduction, Category 2
- Specific Target Organ Toxicity - Single Exposure, Category 1, 2, 3
- Specific Target Organ Toxicity - Repeated Exposure, Category 1, 2

**GHS LABEL ELEMENTS**

**Symbol(s)**



**Signal Word**

DANGER!

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## Hazard Statement(s)

Flammable aerosol  
Causes skin irritation and serious eye damage  
May cause an allergic skin reaction  
Suspected of causing cancer and damaging fertility or the unborn child  
May be fatal if swallowed and enters airways  
Causes damage to central nervous system, kidneys, systemic toxicity, and liver  
May cause damage to cardiovascular system, respiratory system, and drowsiness and dizziness  
Causes damage to respiratory system through prolonged or repeated exposure  
May cause damage to liver, blood, kidneys, and respiratory system through prolonged or repeated exposure

## Precautionary Statement(s)

### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not breathe vapor or mist. Do not eat, drink or smoke when using this product. Pressurized container: Do not pierce or burn, even after use. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

### Response

IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash 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. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

### Storage

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

### Disposal

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

### Hazard(s) Not Otherwise Classified

None known.

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

CAS	Component	Percent
7732-18-5	Water	>40
5989-27-5	D-Limonene	18
75-28-5	Isobutane	<10
74-98-6	Propane	<10
67-63-0	Isopropyl alcohol	<10
34398-01-1	Poly(oxy-1,2-ethanediyl), $\alpha$ -undecyl- $\omega$ -hydroxy-	<10
68603-42-9	Coconut diethanolamide	<9
111-42-2	Diethanolamine	<4
61790-12-3	Tall oil fatty acids	<4
64-02-8	Tetrasodium EDTA	<2

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## \*\*\* 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 or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

#### Ingestion

IF SWALLOWED: Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.

### Most Important Symptoms/Effects

#### Acute

Skin irritation, eye damage, skin sensitizer, aspiration hazard, central nervous system depression, central nervous system damage, kidney damage, liver damage, systemic toxicity damage, cardiovascular system damage, respiratory system damage.

#### Delayed

Cancer, reproductive effects, liver damage, blood damage, kidney damage, skin sensitizer, respiratory system damage.

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

IF exposed: Call a POISON CENTER or doctor/physician. Treat symptomatically and supportively. Sympathomimetic drugs may initiate cardiac arrhythmias. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Treatment may vary with condition of victim and specifics of incident.

## \*\*\* Section 5 - Fire-Fighting Measures \*\*\*

### Suitable Extinguishing Media

Regular foam, carbon dioxide, dry chemical.

### Unsuitable Extinguishing Media

Do not use high-pressure water streams.

### Specific Hazards Arising from the Chemical

Fire may produce irritating, poisonous and/or corrosive fumes. Vapors may cause drowsiness and dizziness. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Runoff to sewer may cause a fire or explosion hazard. Runoff may create fire or explosion hazard. Containers may rupture or explode. Empty containers may contain product residue. Do not direct water at source of leak or safety devices; icing may occur. Product may be sensitive to static discharge, which could result in fire or explosion. Product may be sensitive to static discharge, which could result in fire or explosion. Products are not sensitive to mechanical impact.

### Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide, nitrogen oxides, and various hydrocarbons.

### Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

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## Fire Fighting Measures

Keep storage containers cool with water spray. Move container from fire area if it can be done without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Stay away from the ends of tanks. Keep unnecessary people away, isolate hazard area and deny entry. 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). Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Dike for later disposal.

## \* \* \* Section 6 - Accidental Release Measures \* \* \*

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see **Section 8, Exposure Controls/Personal Protection**. Avoid release to the environment.

### 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. 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 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, and shoes. Do not smoke when using this product. Contents under pressure. Do not puncture or heat canister.

### Conditions for Safe Storage, Including Any Incompatibilities

Store locked up. Keep containers away from flame, sparks, static electricity, or other sources of ignition; containers may explode and cause injury or death. Keep container tightly closed. Keep cool. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Empty containers may contain product residue. Store in a cool, dry, well-ventilated area. Store locked up. See **Section 14, Transportation Information for Packing Group Information**.

### Incompatibilities

Oxidizing materials, strong acids, bases, reducing agents, reactive metals.

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

### Component Exposure Limits

Isopropyl alcohol	67-63-0
Alberta	200 ppm TWA ; 492 mg/m3 TWA; 400 ppm STEL ; 984 mg/m3 STEL
British Columbia; Northwest Territories; Nova Scotia; Nunavut; Ontario, Prince Edward Island; Saskatchewan	200 ppm TWA; 400 ppm STEL

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Manitoba	200 ppm TWA
New Brunswick	400 ppm TWA ; 983 mg/m <sup>3</sup> TWA; 500 ppm STEL ; 1230 mg/m <sup>3</sup> STEL
Quebec	400 ppm TWAEV ; 985 mg/m <sup>3</sup> TWAEV; 500 ppm STEV ; 1230 mg/m <sup>3</sup> STEV
Yukon	400 ppm TWA ; 980 mg/m <sup>3</sup> TWA; 500 ppm STEL ; 1225 mg/m <sup>3</sup> STEL Skin notation
ACGIH	200 ppm TWA; 400 ppm STEL
OSHA Final	400 ppm TWA; 980 mg/m <sup>3</sup> TWA
OSHA Vacated; NIOSH	400 ppm TWA; 980 mg/m <sup>3</sup> TWA; 500 ppm STEL; 1225 mg/m <sup>3</sup> STEL
<b>Propane</b>	<b>74-98-6</b>
Alberta; British Columbia	1000 ppm TWA
Manitoba; Nova Scotia; Prince Edward Island	(See Appendix F: Minimal Oxygen Content, explosion hazard )
Northwest Territories; Nunavut; Saskatchewan	1000 ppm TWA; 1250 ppm STEL
Ontario	(See Appendix F: Minimal Oxygen Content )
Quebec	1000 ppm TWAEV ; 1800 mg/m <sup>3</sup> TWAEV
ACGIH	(See Appendix F: Minimal Oxygen Content, explosion hazard )
OSHA Final; OSHA Vacated; NIOSH	1000 ppm TWA; 1800 mg/m <sup>3</sup> TWA
<b>Isobutane</b>	<b>75-28-5</b>
Northwest Territories; Nunavut; Saskatchewan	1000 ppm TWA; 1250 ppm STEL
Nova Scotia; Prince Edward Island	1000 ppm STEL (explosion hazard )
Ontario	800 ppm TWA (in force until January 1, 2018; 1000 ppm STEL
ACGIH	1000 ppm STEL (explosion hazard )
NIOSH	800 ppm TWA; 1900 mg/m <sup>3</sup> TWA
<b>Diethanolamine</b>	<b>111-42-2</b>
Alberta	2 mg/m <sup>3</sup> TWA; Substance may be readily absorbed through intact skin

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British Columbia	2 mg/m <sup>3</sup> TWA; Skin notation
Manitoba; Nova Scotia	1 mg/m <sup>3</sup> TWA inhalable fraction and vapor; Skin - potential for cutaneous absorption; Skin - potential significant contribution to overall exposure by the cutaneous route
New Brunswick	0.46 ppm TWA ; 2 mg/m <sup>3</sup> TWA; Skin - potential for cutaneous absorption
Northwest Territories; Nunavut	2 mg/m <sup>3</sup> TWA; 4 mg/m <sup>3</sup> STEL; Skin notation
Ontario	1 mg/m <sup>3</sup> TWA inhalable fraction and vapor; Danger of cutaneous absorption
Prince Edward Island	1 mg/m <sup>3</sup> TWA inhalable fraction and vapor
Quebec	3 ppm TWAEV ; 13 mg/m <sup>3</sup> TWAEV; Skin designation
Saskatchewan	2 mg/m <sup>3</sup> TWA; 4 mg/m <sup>3</sup> STEL; Potentially harmful after absorption through skin or mucous membranes
ACGIH	1 mg/m <sup>3</sup> TWA inhalable fraction and vapor Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA Vacated; NIOSH	3 ppm TWA; 15 mg/m <sup>3</sup> TWA

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

#### Isopropyl alcohol (67-63-0)

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

### 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. Where explosive mixtures may be present, equipment safe for such locations should be used.

### 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, lab coat or apron.

### Eyes/Face Protection

Safety glasses with side shields should be worn at a minimum. Additional protection such as goggles, face shields, or respirators may be needed depending 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

Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex) 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, coveralls, long sleeve shirts, or other protective clothing.

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## Respiratory Protection

Use NIOSH-certified, air-purifying respirators with N-, 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. 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.

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

<b>Appearance/Odor :</b> Liquid gas/spray, citrus odor Citrus odor	<b>pH:</b> 9.6
<b>Boiling Point:</b> Not available	<b>Odor Threshold:</b> Not available
<b>Solubility (H2O):</b> Soluble	<b>Melting Point:</b> Not available
<b>Density:</b> Not available	<b>Specific Gravity:</b> 0.96
<b>Evaporation Rate:</b> <1	<b>Octanol/H2O Coeff.:</b> Not available.
<b>LFL:</b> Not available	<b>Auto Ignition Temperature:</b> Not available
<b>UFL:</b> Not available	<b>Flash Point:</b> 28.9°C (84°F) (Concentrate)
<b>Vapor Pressure:</b> 52 psig	<b>Viscosity:</b> Not available
	<b>Vapor Density:</b> Not available

## Other Property Information

No 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

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

This product may react with strong acids, bases, oxidizing agents and reducing agents and some metals.

### Hazardous Decomposition Products

Burning may produce carbon dioxide, nitrogen oxides, and hydrocarbons.

## \* \* \* Section 11 - Toxicological Information \* \* \*

### Information on Likely Routes of Exposure

#### Inhalation

May cause irritation, nausea, loss of appetite, drowsiness, dizziness, disorientation, tremors, lung damage (from aspiration), convulsions, and coma.

#### Ingestion

May be harmful if swallowed. May cause headache, drowsiness, dizziness, loss of coordination, and aspiration hazard.

#### Skin Contact

Causes skin irritation and skin sensitization.

#### Eye Contact

Causes eye damage.

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## Acute and Chronic Toxicity

### Component Analysis - LD50/LC50

#### Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

#### D-Limonene (5989-27-5)

Oral LD50 Rat 5200 mg/kg (females ;in arabic gum/water); Dermal LD50 Rabbit >5 g/kg (no deaths occurred)

#### Isopropyl alcohol (67-63-0)

Oral LD50 Rat 1870 mg/kg; Dermal LD50 Rabbit 4059 mg/kg; Inhalation LC50 Rat 72600 mg/m<sup>3</sup> 4 h

#### Propane (74-98-6)

Inhalation LC50 Rat >800000 ppm 15 min

#### Isobutane (75-28-5)

Inhalation LC50 Rat 658 mg/L 4 h

#### Coconut diethanolamide (68603-42-9)

Oral LD50 Rat >5000 mg/kg (no deaths occurred); Dermal LD50 Rabbit >2 g/kg (no deaths occurred)

#### Tall oil fatty acids (61790-12-3)

Oral LD50 Rat >10000 mg/kg (no deaths occurred)

#### Diethanolamine (111-42-2)

Oral LD50 Rat 780 mg/kg; Dermal LD50 Rabbit 11.9 mL/kg

#### Tetrasodium EDTA (64-02-8)

Oral LD50 Rat 1658 mg/kg

## Product Toxicity Data

### Acute Toxicity Estimate

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

### Immediate Effects

May be fatal if swallowed and enters airways. Skin irritation, eye damage, skin sensitizer, aspiration hazard, central nervous system depression, central nervous system damage, kidney damage, liver damage, systemic toxicity damage, cardiovascular system damage, respiratory system damage.

### Delayed Effects

Liver damage, kidney damage, blood damage, skin sensitizer

### Irritation/Corrosivity

Skin irritation, eye damage.

### Respiratory Sensitization

No information available for the product.

### Skin Sensitization

May cause an allergic skin reaction

### Carcinogenicity

Suspected of causing cancer.



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## Component Carcinogenicity

### D-Limonene (5989-27-5)

**IARC:** Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting evidence from other relevant data) (Group 3 (not classifiable))

### Isopropyl alcohol (67-63-0)

**ACGIH:** A4 - Not Classifiable as a Human Carcinogen

**IARC:** Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))

### Coconut diethanolamide (68603-42-9)

**OSHA:** Present (select carcinogen)

**IARC:** Monograph 101 [2012] (Group 2B (possibly carcinogenic to humans))

### Diethanolamine (111-42-2)

**ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

**OSHA:** Present (select carcinogen)

**IARC:** Monograph 101 [2012]; Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

**DFG:** Category 3B (could be carcinogenic for man)

## Germ Cell Mutagenicity

No information available for the product.

## Teratogenicity

No information available for the product.

## Reproductive Effects

Available data characterizes components of this product as reproductive hazards.

## Specific Target Organ Effects - Single Exposure

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

## Specific Target Organ Effects - Repeated Exposure

Liver, blood, kidneys, respiratory system

## Aspiration Hazard

This material is an aspiration hazard.

## Medical Conditions Aggravated by Exposure

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

## \* \* \* Section 12 - Ecological Information \* \* \*

## Ecotoxicity

Toxic to aquatic life with long lasting effects.

## Component Analysis - Ecotoxicity - Aquatic Toxicity

<b>D-Limonene</b>	<b>5989-27-5</b>
Fish:	LC50 96 h Pimephales promelas 0.619 - 0.796 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 35 mg/L
<b>Isopropyl alcohol</b>	<b>67-63-0</b>
Fish:	LC50 96 h Pimephales promelas 9640 mg/L [flow-through ]; LC50 96 h Pimephales promelas 11130 mg/L [static ]; LC50 96 h Lepomis macrochirus >1400000 µg/L
Algae:	EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID ; EC50 72 h Desmodesmus subspicatus >1000 mg/L IUCLID

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Invertebrate:	EC50 48 h Daphnia magna 13299 mg/L IUCLID
<b>Coconut diethanolamide</b>	<b>68603-42-9</b>
Fish:	LC50 96 h Brachydanio rerio 3.6 mg/L [semi-static ]
<b>Tall oil fatty acids</b>	<b>61790-12-3</b>
Algae:	EC50 72 h Pseudokirchneriella subcapitata >=1000 mg/L IUCLID
<b>Diethanolamine</b>	<b>111-42-2</b>
Fish:	LC50 96 h Pimephales promelas 4460 - 4980 mg/L [flow-through ]; LC50 96 h Pimephales promelas 1200 - 1580 mg/L [static ]; LC50 96 h Lepomis macrochirus 600 - 1000 mg/L [static ]
Algae:	EC50 72 h Desmodesmus subspicatus 7.8 mg/L IUCLID ; EC50 96 h Pseudokirchneriella subcapitata 2.1 - 2.3 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 55 mg/L IUCLID
<b>Tetrasodium EDTA</b>	<b>64-02-8</b>
Fish:	LC50 96 h Lepomis macrochirus 41 mg/L [static ]; LC50 96 h Pimephales promelas 59.8 mg/L [static ]
Algae:	EC50 72 h Desmodesmus subspicatus 1.01 mg/L IUCLID

### 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

Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product. 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. Dispose in accordance with federal, state, provincial, and local regulations.

## \*\*\* Section 14 - Transport Information \*\*\*

### International Transportation Regulations

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

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

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

## IATA Information

**Shipping Name:** AEROSOLS, FLAMMABLE  
**Hazard Class:** 2.1  
**UN#:** UN1950  
**Required Label(s):** 2.1 FLAMMABLE GAS  
Marine pollutant

## 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.

<b>Tall oil fatty acids</b>	<b>61790-12-3</b>
IBC Code:	Category Y (resin acids <20% )
<b>Diethanolamine</b>	<b>111-42-2</b>
IBC Code:	Category Y
<b>Tetrasodium EDTA</b>	<b>64-02-8</b>
IBC Code:	Category Y (solution )

## \* \* \* Section 15 - Regulatory Information \* \* \*

### Volatile Organic Compounds (As Regulated)

37 WT%; 2.98 LB/US gal; 357 g/L  
Vapor Pressure (d-Limonene) @ 20°C = 1.5 mmHg  
Contains photochemically reactive materials.

### 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.

<b>Isopropyl alcohol</b>	<b>67-63-0</b>
SARA 313:	1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification )
<b>Diethanolamine</b>	<b>111-42-2</b>
SARA 313:	1 % de minimis concentration

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CERCLA:	100 lb final RQ ; 45.4 kg final RQ
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**Chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.**

CAS-No.	Name	Percent by Weight
67-63-0	Isopropyl alcohol	<10
111-42-2	Diethanolamine	<4

**SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories**

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

### 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
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes
Propane	74-98-6	No	Yes	Yes	Yes	Yes
Isobutane	75-28-5	No	Yes	No	Yes	Yes
Diethanolamine	111-42-2	Yes	Yes	Yes	Yes	Yes

WARNING! This product can expose you to chemicals include Diethanolamine which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.gov](http://www.P65Warnings.gov).

### Canada Regulations

#### CEPA - Priority Substances List

None of this product's components are on the list.

#### Ozone Depleting Substances

None of this product's components are on the list.

#### Council of Ministers of the Environment - Soil Quality Guidelines

None of this product's components are on the list.

#### Council of Ministers of the Environment - Water Quality Guidelines

None of this product's components are on the list.

### Component Analysis - Inventory

#### Water (7732-18-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes

#### D-Limonene (5989-27-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

#### Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-omega.-hydroxy- (34398-01-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	No	Yes	Yes	No	No	Yes	No	No	Yes	Yes	No	Yes	Yes

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### Isopropyl alcohol (67-63-0); Propane (74-98-6); Isobutane (75-28-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

### Coconut diethanolamide (68603-42-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes

### Tall oil fatty acids (61790-12-3); Diethanolamine (111-42-2); Tetrasodium EDTA (64-02-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

### \* \* \* Section 16 - Other Information \* \* \*

#### NFPA Ratings

Health: 3 Fire: 3 Reactivity: 0

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

#### Revision Information

2021-11-18: Regulatory review and update

#### 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

## Safety Data Sheet

**Material Name: SAFETY-KLEEN PROFESSIONAL BUG & TAR REMOVER**

**SDS ID: 820183**

### Disclaimer

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