

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label: **Cisol BD-501****Product Code(s)** : None assigned.**Recommended use of the chemical and restrictions on use**

: Degreaser, Cleaner.

Recommended restrictions :Not intended for use by children.

Chemical family : Mixture**Name, address, and telephone number of the supplier:****Guardex Lubes Inc.**109 9th Ave. SE
High River, Alberta, Canada
T1V 1E7

Supplier's Telephone # : 403-652-1992 (Monday - Friday, 8:00 am to 3:00 pm)

24 Hr. Emergency Tel # : 403-850-0773**Name, address, and telephone number of the manufacturer:**

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Appearance: Clear yellow to amber liquid.

Odour: Citrus odour.

Most important hazards: This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable liquid - Category 3

Skin corrosion/irritation - Category 2

Serious eye damage/eye irritation - Category 2A

Aspiration toxicity - Category 1

Skin sensitiser - Category 1

Specific target organ toxicity, single exposure - Category 3 (Respiratory irritation)

Label elements*Hazard pictogram(s)**Signal Word*

DANGER!

Hazard statement(s)

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May be fatal if swallowed and enters airways.

May cause allergic skin reaction.

May cause respiratory irritation.

Precautionary statement(s)

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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.
 Keep container tightly closed.
 Ground/Bond container and receiving equipment.
 Use explosion-proof electrical and ventilating equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Wear protective gloves and eye/face protection.
 Contaminated work clothing must not be allowed out of the workplace.
 Avoid breathing mist, vapors or spray.
 Wash hands and face thoroughly after handling.
 Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: get medical advice/attention.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 If swallowed :Immediately call a POISON CENTRE or doctor/physician.
 Do NOT induce vomiting.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTRE or doctor/physician if you feel unwell.
 In case of fire: Use carbon dioxide, dry chemical or foam to extinguish.

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Other hazards which do not result in classification:
 Burning produces obnoxious and toxic fumes.
 May form hydroperoxides on exposure to air and sunlight
 Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
 Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Ecological information:

Very toxic to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration(% by weight)</u>
d-Limonene	d-p-Mentha-1,8-diene; 4-Isopropenyl-1-methylcyclohexene	5989-27-5	80.0 - 100.0
Sodium dodecylbenzenesulfonate	Dodecylbenzenesulfonic acid, sodium salt	25155-30-0	1.0 - 5.0
Sodium lauryl ether sulphate	Alkyl (C10-C16) ether sulfate sodium salt	68585-34-2	1.0 - 5.0
Diocetyl sodium sulfosuccinate	Docosate sodium	577-11-7	0.5 - 1.5
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.- (iminodi-2,1-ethanediyl)bis[.omega. -hydroxy-, N-[3-(branched decyloxy)propyl] derivatives	PEG-5 Isodecyloxypropylamine	68478-95-5	0.5 - 1.5
Ethanol	Ethyl alcohol; Ethyl hydrate	64-17-5	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

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SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Aspiration hazard if swallowed - can enter lungs and cause damage. Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.
- Inhalation* : If breathed in, move person into fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin contact* : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: get medical advice/attention.
- Eye contact* : Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

- : Causes skin irritation. Symptoms may include a burning sensation, redness, swelling, drying, and cracking of the skin.
May cause an allergic skin reaction (e.g. swelling, rash and eczema).
Causes serious eye irritation. Can cause irritation, redness, tearing, and blurred vision and/or eye damage.
May cause respiratory irritation. Symptoms may include severe pain, tearing, redness, swelling and blurred vision.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
May be fatal if swallowed and enters airways. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Aspiration hazard. Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Carbon dioxide (CO₂); Dry chemical; Alcohol resistant foam; Water fog.

Unsuitable extinguishing media

- : Water may be ineffective when fighting fires involving this material. Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Flammable liquid and vapour. Burning produces obnoxious and toxic fumes. May form hydroperoxides on exposure to air and sunlight. Can form explosive mixtures with air at, or above 45°C (113°F). Vapors are heavier than air and may spread along floors. Vapors may travel considerable distance to a source of ignition and flash back. Vapours are heavier than air and collect in confined and low-lying areas. Product may float, and be re-ignited at the water's surface. May be sensitive to static discharge. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Hazardous combustion products

- : Carbon oxides, Sulphur oxides, Sodium oxides, Hydrogen sulfide, Other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

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Special fire-fighting procedures

- : Avoid breathing mist, vapors or spray. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Remove all sources of ignition. Ventilate the area. Restrict access to area until completion of clean-up. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. All persons dealing with the clean-up should wear the appropriate personal protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Prevent further leakage or spillage if safe to do so. Avoid breathing mist, vapors or spray. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Do not use combustible absorbents, such as sawdust. Use only non-sparking tools and equipment in the clean-up process. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Use in a well-ventilated area. May form hydroperoxides on exposure to air and sunlight. Wear suitable protective equipment. Wear protective gloves/clothing and eye/face protection. Avoid breathing mist, vapors or spray. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Ground all equipment during handling. Use only non-sparking tools with this material. Take precautionary measures against static discharges. Properly bond and ground all containers before transferring material. Keep away from incompatibles. Keep containers closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Conditions for safe storage : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Keep away from incompatibles. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Protect against physical damage. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking. Inspect periodically for damage or leaks. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

Incompatible materials : Oxidizing agents, Oxygen, Sulfur, Acids, Reducing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
d-Limonene	30 ppm (AIHA WEEL)	N/Av	N/Av	N/Av

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Sodium dodecylbenzenesulfonate	N/Av	N/Av	N/Av	N/Av
Sodium lauryl ether sulphate	N/Av	N/Av	N/Av	N/Av
Diocetyl sodium sulfosuccinate	N/Av	N/Av	N/Av	N/Av
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-(iminodi-2,1-ethanediyl)bis[.omega a.-hydroxy-, N-[3-(branched decyloxy)propyl] derivitives	N/Av	N/Av	N/Av	N/Av
Ethanol	N/Av	1000 ppm	1000 ppm (1900 mg/m ³)	N/Av

Exposure controls**Ventilation and engineering measures**

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

: If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

: Wear protective gloves/clothing. Gloves impervious to the material are recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear sufficient clothing to prevent skin contact.

Eye / face protection

: Wear eye/face protection. Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing mist, vapors or spray. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear yellow to amber liquid.
Odour	: Citrus odour.
Odour threshold	: N/Av
pH	: N/Av
Melting/Freezing point	: -94°F / -70°C
Initial boiling point and boiling range	: 347-349°F / 175-176°C
Flash point	: 48°C (ASTM D93-Closed cup) 77°C (ASTM D92-Open cup)
Flashpoint (Method)	: Cleveland closed cup ;Cleveland Open Cup
Evaporation rate (BuAe = 1)	: <1 (diethyl ether = 1)
Flammability (solid, gas)	: N/Av
Lower flammable limit (% by vol.)	: 0.75%
Upper flammable limit (% by vol.)	: 6.1%
Oxidizing properties	: None known.
Explosive properties	: Not explosive
Vapour pressure	: <3 mm Hg @ 20°C / 68°F
Vapour density	: 4.73 (Air = 1)

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Relative density / Specific gravity

: 0.85 (water = 1)

Solubility in water : miscible**Other solubility(ies)** : N/Av**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**

: N/Av

Auto-ignition temperature : 896°F / 480°C**Decomposition temperature** : N/Av**Viscosity** : N/Av**Volatiles (% by weight)** : 95%**Volatile organic Compounds (VOC's)**

: 0.7852 kg

Absolute pressure of container

: N/Av

Flame projection length : N/Av**Other physical/chemical comments**

: None.

SECTION 10. STABILITY AND REACTIVITY**Reactivity** : Not normally reactive.**Chemical stability** : Stable under normal conditions. May form hydroperoxides on exposure to air and sunlight**Possibility of hazardous reactions**

: None expected, when used as intended. Hazardous polymerization does not occur.

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources. Avoid prolonged exposure to air. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.**Incompatible materials** : Oxidizing agents, Oxygen, Sulfur, Acids, Reducing agents.**Hazardous decomposition products**

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure:****Routes of entry inhalation** : YES**Routes of entry skin & eye** : YES**Routes of entry Ingestion** : YES**Routes of exposure skin absorption**

: YES

Potential Health Effects:**Signs and symptoms of short-term (acute) exposure***Sign and symptoms Inhalation*

: May cause respiratory irritation. Symptoms may include coughing, mucous production and difficulty breathing.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Sign and symptoms skin

: Causes skin irritation. Symptoms may include a burning sensation, redness, swelling, drying, and cracking of the skin.

Sign and symptoms eyes

: Causes serious eye damage. Can cause irritation, redness, tearing, and blurred vision and/or eye damage.

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Potential Chronic Health Effects

: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Sensitization to material : This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:

Skin sensitizer- Category 1. May cause an allergic skin reaction (e.g. swelling, rash and eczema).

Not expected to be a respiratory sensitizer.

Specific target organ effects : Target Organs: Eyes, skin, respiratory system and digestive system.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazardous classification:

Specific target organ toxicity, single exposure -Category 3. May cause respiratory irritation.

Not classified as specific target organ toxicity-repeated exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials : No information available.

Toxicological data : Not classified for acute toxicity based on available data. The calculated ATE values for this mixture are:

ATE oral = 4084 mg/kg

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
d-Limonene	N/Av	4400 mg/kg	> 5000 mg/kg
Sodium dodecylbenzenesulfonate	N/Av	1080-1980 mg/kg	>2000 mg/kg (No mortality)
Sodium lauryl ether sulphate	N/Av	>2000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)
Diocetyl sodium sulfosuccinate	N/Av	1900 mg/kg	>10000mg/kg
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-(iminodi-2,1-ethanediyl)bis[.omega-mega.-hydroxy-, N-[3-(branched decyloxy)propyl]derivitives	N/Av	N/Av	N/Av
Ethanol	> 32 380 ppm (61 mg/L) (vapour)	7060 mg/kg	> 15 800 mg/kg

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Very toxic to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

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<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
d-Limonene	5989-27-5	0.72 mg/L (Fathead minnow)	N/Av	1
Sodium dodecylbenzenesulfonate	25155-30-0	3.2 mg/L (Fathead minnow)	3.97-9.2 mg/L (30 days) QSAR	None.
Sodium lauryl ether sulphate	68585-34-2	15 mg/L (Rainbow trout)	0.12 mg/L (28-day) (Rainbow trout)	1
Diocetyl sodium sulfosuccinate	577-11-7	49mg/L (Bluegill sunfish)	N/Av	None.
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-(iminodi-2,1-ethanediyl)bis[.omega.ga.-hydroxy-, N-[3-(branched decyloxy)propyl] derivatives	68478-95-5	N/Av	N/Av	N/Av
Ethanol	64-17-5	> 100 mg/L (Fathead minnow)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
d-Limonene	5989-27-5	0.36 mg/L (Daphnia magna)	N/Av	1
Sodium dodecylbenzenesulfonate	25155-30-0	4.8 mg/L (Daphnia magna)	1.65 mg/L	None.
Sodium lauryl ether sulphate	68585-34-2	18 mg/L (Daphnia magna)	0.7 mg/L (Daphnia magna)	None.
Diocetyl sodium sulfosuccinate	577-11-7	34.9 mg/L (Daphnia magna)	N/Av	None.
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-(iminodi-2,1-ethanediyl)bis[.omega.ga.-hydroxy-, N-[3-(branched decyloxy)propyl] derivatives	68478-95-5	N/Av	N/Av	N/Av
Ethanol	64-17-5	5012 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
d-Limonene	5989-27-5	N/Av	N/Av	None.
Sodium dodecylbenzenesulfonate	25155-30-0	29 mg/L/96hr (Green algae) (freshwater)	18 mg/L/72hr	None.
Sodium lauryl ether sulphate	68585-34-2	N/Av	0.35 mg/L/72hr (Green algae)	1
Diocetyl sodium sulfosuccinate	577-11-7	39.3mg/L (Green algae)	N/Av	None.
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-(iminodi-2,1-ethanediyl)bis[.omega.ga.-hydroxy-, N-[3-(branched decyloxy)propyl] derivatives	68478-95-5	N/Av	N/Av	N/Av
Ethanol	64-17-5	1000 mg/L/96hr (Green algae)	N/Av	None.

Persistence and degradability

: No data is available on the product itself. Expected to be biodegradable (based on ingredients).

Bioaccumulation potential

: No information available. See the following data for ingredient information.

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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
d-Limonene (CAS 5989-27-5)	4.57	660
Sodium dodecylbenzenesulfonate (CAS 25155-30-0)	1.96	130 Fish
Sodium lauryl ether sulphate (CAS 68585-34-2)	N/Av	N/Av
Diocetyl sodium sulfosuccinate (CAS 577-11-7)	1.998	Not expected to bioaccumulate.
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-(iminodi-2,1-ethanediyl)bis[omega-ga.-hydroxy-, N-[3-(branched decyloxy)propyl] derivatives (CAS 68478-95-5)	N/Av	N/Av
Ethanol (CAS 64-17-5)	- 0.31	N/Av

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects



: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN2319	TERPENE HYDROCARBONS, N.O.S.	3	III	
49CFR/DOT Additional information	US CERCLA Reportable quantity (RQ): Sodium dodecylbenzenesulfonate (1000 lbs / 454 kg). May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Refer to 49 CFR Section 173.150. This product contains marine pollutants.				
TDG	UN2319	TERPENE HYDROCARBONS, N.O.S.	3	III	
TDG Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				

Special precautions for user : Keep away from heat, sparks and open flame - No smoking. Appropriate advice on safety must accompany the package.

Environmental hazards : This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15 - REGULATORY INFORMATION**Canadian Information:**

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Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

US Federal Information:

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Skin irritation ;Skin sensitization ;Eye irritation;Aspiration hazard;Specific target organ toxicity, single exposure .Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECS</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
d-Limonene	5989-27-5	227-813-5	Present	Present	(3)-2245; (3)-2226	KE-24397	Present	HSR002725
Sodium dodecylbenzenesulfonate	25155-30-0	246-680-4	Present	Present	(3)-1949; (3)-1906; (3)-1884	KE-12954	Present	HSR003161
Sodium lauryl ether sulphate	68585-34-2	Not listed	Present	Present	(7)-120; (7)-155	KE-32438	Present	HSR003213
Dioctyl sodium sulfosuccinate	577-11-7	209-406-4	Present	Present	(2)-1623	KE-32402	Present	HSR003166
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-(iminodi-2,1-ethanediyl)bis[.omega.-hydroxy-, N-[3-(branched decyloxy)propyl] derivatives	68478-95-5	Not listed	Present	Not listed	Not listed	Not listed	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.
Ethanol	64-17-5	200-578-6	Present	Present	(2)-202	KE-13217	Present	HSR001144

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CNS: Central Nervous System
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- EC50: Effective Concentration 50%
- ECHA: European Chemicals Agency
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- ERG: Emergency Response Guidebook
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- ICAO: International Civil Aviation Organisation
- IECSC: Inventory of Existing Chemical Substances
- Inh: Inhalation
- IOC: Inventory of Chemicals
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List

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LC: Lethal Concentration
 LD: Lethal Dose
 N/Ap: Not Applicable
 N/Av: Not Available
 NIOSH: National Institute of Occupational Safety and Health
 NOEC: No observable effect concentration
 NTP: National Toxicology Program
 OECD: Organisation for Economic Co-operation and Development
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible exposure limit
 PICCS: Philippine Inventory of Chemicals and Chemical Substances
 RCRA: Resource Conservation and Recovery Act
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 SDS: Safety Data Sheet / Material Safety Data Sheet
 STEL: Short Term Exposure Limit
 TCC: Tagliabue Closed Cup
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TSCA: Toxic Substance Control Act
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
 2. International Agency for Research on Cancer Monographs, searched 2019.
 3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
 4. Safety Data Sheets from manufacturer.
 5. US EPA Title III List of Lists - June 2019 version.
 6. California Proposition 65 List - September 2019 version.
 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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Revision Information

: (M)SDS sections updated 9. PHYSICAL AND CHEMICAL PROPERTIES 16. Other information

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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