

Material Safety Data Sheet

Lustrel

1 . Product and company identification

Common name : Lustrel
Material uses : Truck and cars detergent.
Supplier/Manufacturer : V-TO Inc.
 2975, Nelson
 Saint-Hyacinthe
 QC J2S 1Y5
 Tél: (450) 774-6849
 Fax:(450) 774-4334
In case of emergency : CANUTEC (613) 996-6666 (Canada)
MSDS authored by: : Kemika XXI Inc. + 1-450-435-7475 01/31/2007

2 . Hazards identification

Physical state : Liquid. (Viscous liquid.)
Color : Violet.
Hazard status : This material is classified hazardous under OSHA regulations in the United States and the WHMIS Controlled Product Regulation in Canada.
Emergency overview : WARNING !
 HARMFUL IF SWALLOWED.
 CAUSES EYE AND SKIN IRRITATION.
 CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
 BLOOD, REPRODUCTIVE SYSTEM, LIVER, RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.
 Do not ingest. Avoid contact with skin and clothing. Wash thoroughly after handling.
Routes of entry : Dermal contact. Eye contact.
Potential acute health effects
Eyes : Irritating to eyes.
Skin : Irritating to skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : Harmful if swallowed.
Potential chronic health effects : Carcinogenic effects: Classified A4 (Not classifiable for humans or animals.) by ACGIH [Ethanol]. Classified A3 (Proven for animals.) by ACGIH [2-Butoxyethanol]. Classified 3 (Not classifiable for humans.) by IARC [2-Butoxyethanol].
 Mutagenic effects: Not available.
 Teratogenic effects: Not available.
Medical conditions aggravated by over-exposure : Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organ damage.

See toxicological information (section 11)

3 . Composition/information on ingredients

United States

Name	CAS number	%
Sodium Dodecylbenzene Sulfonate	25155-30-0	10 - 30
Lauryl Ether Sulfate	68585-34-2	1 - 5
Ethanol	64-17-5	1 - 5

Canada

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Sodium Dodecylbenzene Sulfonate	25155-30-0	10 - 30
Lauryl Ether Sulfate	68585-34-2	1 - 5
Ethanol	64-17-5	1 - 5

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

5 . Fire-fighting measures

- Flammability of the product** : Non-flammable.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7 . Handling and storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 . Exposure controls/personal protection

United States

Product name

Ethanol

Exposure limits

ACGIH TLV (United States, 1/2006).

TWA: 1880 mg/m³ 8 hour(s).

TWA: 1000 ppm 8 hour(s).

NIOSH REL (United States, 12/2001).

TWA: 1900 mg/m³ 10 hour(s).

TWA: 1000 ppm 10 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 1900 mg/m³ 8 hour(s).

TWA: 1000 ppm 8 hour(s).

Canada**Product name**

Ethanol

Exposure limits**CSST (Canada, 2001).**TWA: 1880 mg/m³ 8 hour(s).

Engineering measures : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protection

- Eyes** : Safety glasses.
- Skin** : Wear appropriate personal protective suit.
- Respiratory** : Not required if handled in a ventilated enclosure.
- Hands** : Natural rubber (latex).



HMIS Code/Personal protective equipment : B

Personal protection in case of a large spill : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear. Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

9 . Physical and chemical properties

- Physical state** : Liquid. (Viscous liquid.)
- Color** : Violet.
- pH** : 8.5 to 9.5 [Basic.]
- Solubility** : Miscible in water.

10 . Stability and reactivity

- Stability and reactivity** : The product is stable.
- Incompatibility with various substances** : Reactive with oxidizing materials, acids and alkalis.
- Hazardous polymerization** : Will not occur.
- Conditions of reactivity** : None known.

11 . Toxicological information**Toxicity data**

Product/ingredient name	Test	Result	Route	Species
Sodium Dodecylbenzene Sulfonate	LD50	438 mg/kg	Oral	Rat
	LD50	1330 mg/kg	Oral	Mouse
Lauryl Ether Sulfate	LD50	>2000 mg/kg	Oral	Rat
Ethanol	LD50	7060 mg/kg	Oral	Rat
	LD50	6300 mg/kg	Oral	Rabbit
	LD50	3450 mg/kg	Oral	Mouse

Acute Effects

- Eyes** : Irritating to eyes.
- Skin** : Irritating to skin.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Harmful if swallowed.
- Potential chronic health effects** : Carcinogenic effects: Classified A4 (Not classifiable for humans or animals.) by ACGIH [Ethanol]. Classified A3 (Proven for animals.) by ACGIH [2-Butoxyethanol]. Classified 3 (Not classifiable for humans.) by IARC [2-Butoxyethanol].
Mutagenic effects: Not available.
Teratogenic effects: Not available.
- Target organs** : Contains material which causes damage to the following organs: blood, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

12 . Ecological information**Ecotoxicity data**

Product/ingredient name	Species	Period	Result
Sodium Dodecylbenzene Sulfonate	Daphnia magna (EC50)	48 hour(s)	5.88 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	1.18 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	1.68 mg/l
Ethanol	Lepomis macrochirus (LC50)	96 hour(s)	6.5 mg/l
	Daphnia magna (EC50)	48 hour(s)	2 mg/l
	Daphnia magna (EC50)	48 hour(s)	9.3 mg/l
	Daphnia magna (EC50)	48 hour(s)	>100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	13000 mg/l

- Environmental precautions** : No known significant effects or critical hazards.
- Products of degradation** : These products are carbon oxides and water, sulfur oxides.
- Toxicity of the products of biodegradation** : The products of degradation are less toxic than the product itself.

13 . Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

14 . Transport information

AERG : Not applicable.

Regulatory information

UN/ IMDG/IATA DOT/TDG : Not regulated.

15 . Regulatory information

United States

- HCS Classification** : Irritating material
Target organ effects
- U.S. Federal regulations** : TSCA : All components listed.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Sodium Dodecylbenzene Sulfonate;
Ethanol
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium
Dodecylbenzene Sulfonate: Immediate (acute) health hazard; Ethanol: Fire hazard,
Immediate (acute) health hazard, Delayed (chronic) health hazard
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: Sodium Dodecylbenzene Sulfonate; Hydrogen Chloride
Clean Air Act (CAA) 112 accidental release prevention: Hydrogen Chloride
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: Hydrogen Chloride

- State regulations** : Rhode Island RTK hazardous substances: Hydrogen Chloride
Pennsylvania RTK: Sodium Dodecylbenzene Sulfonate: (environmental hazard, generic
environmental hazard); Aminoethanolamine: (generic environmental hazard); Hydrogen
Chloride: (environmental hazard); 2-Butoxyethanol: (environmental hazard, generic
environmental hazard); Ethanol: (generic environmental hazard)
Florida: Hydrogen Chloride
Minnesota: Hydrogen Chloride
Massachusetts RTK: Sodium Dodecylbenzene Sulfonate; Aminoethanolamine; Hydrogen
Chloride; 2-Butoxyethanol; Ethanol
New Jersey: Sodium Dodecylbenzene Sulfonate; Aminoethanolamine; Hydrogen
Chloride; 2-Butoxyethanol; Ethanol
California prop. 65: No products were found.

Canada

- WHMIS (Canada)** : Class D-2B: Material causing other toxic effects (Toxic).



DSL : All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR and the United States OSHA. This MSDS contains all the information required by the CPR and OSHA, the American National Standard Institute (ANSI) Z400.1.

- International lists** : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16 . Other information

- Label requirements (U.S.A.)** : HARMFUL IF SWALLOWED.
CAUSES EYE AND SKIN IRRITATION.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
BLOOD, REPRODUCTIVE SYSTEM, LIVER, RESPIRATORY TRACT, SKIN, CENTRAL
NERVOUS SYSTEM, EYE, LENS OR CORNEA.

Hazardous Material Information System (U.S.A.) :

HMIS RATING

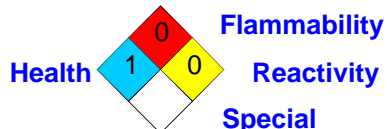
Health	*	1
Fire hazard		0
Physical Hazard		0
Personal protection		B

HAZARD RATINGS

4- Extreme
3- Serious
2- Moderate
1- Slight
0- Minimal

See section 8 for more detailed information on personal protection.

National Fire Protection Association (U.S.A.) :



References

: ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.