

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product name: Citrus Kleen (#1416)

Recommended use: Degreasing compound

Manufacturer: EnviroWay Detergent Manufacturing Incorporated
2241 Hanselman Ave.
Saskatoon, SK S7L 6A7, Canada
Tel: 306-244-7727
Fax: 306-244-7772
Toll free: 1-888-274-0862, www.enviroway.ca

Emergency phone:

Leak and Spill: 1-800-667-7525 (SASK SPILLS) for the Province of Saskatchewan
1-866-845-6037 (Environment Canada) for anywhere else

In Transit: 1-613-996-6666 or *666 on cellular phone (CANUTEC)

Poison Control: 1-866-454-1212 (Saskatchewan)

SECTION 2: HAZARD IDENTIFICATION

Hazard classification

Skin corrosion/irritation	Category 1
Serious eye damage/irritation	Category 1
Skin sensitization	Category 1
Flammable liquid	Category 4

Signal word Danger



Hazard statements

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Combustible liquid.

Precautionary statements

Prevention Wash hands thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, and face protection.
Contaminated work clothing should not be allowed out of the workplace.
Do not breathe mist, vapours or spray.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response	<p>Immediately call a POISON CENTRE/doctor.</p> <p>IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.</p> <p>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p>
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of in accordance with local regulations at government approved waste sites.

SECTION 3: COMPOSITION

The following ingredients have hazardous properties:

Ingredient	CAS #	% by weight
Lauryl alcohol ethylene oxide	9002-92-0	5-10
D'Limonene	5989-27-5	1-5
Glycol ether EB	111-76-2	1-5
Sodium Xylene Sulfonate	1300-72-7	1-5
Potassium hydroxide	1310-58-3	1-5
Sodium laureth sulphate	68891-38-3	1-5

SECTION 4: FIRST AID MEASURES

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

IF ON SKIN: Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

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

IF exposed or concerned: Get medical advice/attention if you feel unwell.

SECTION 5: FIRE FIGHTING MEASURES

Flammable: Combustible liquid

Means of Extinction: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Flashpoint: ~ 74°C

Special Fire Fighting Procedures: Use water spray to keep containers cool. Fire fighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Flush liquid to sewer with plenty of water, if the spill is small. Large spills should be contained by diking with soil or other non-combustible absorbent material and then pumped into dot approved containers. A full face-pipe air-purifying respirator equipped for organic vapours maybe satisfactory in case of small spills.

SECTION 7: HANDLING AND STORAGE

Handling Procedures and Equipment: Use good industrial hygiene. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Wear appropriate PPE.

Storage Requirements: Store in a dry, well ventilated and cool place. Store in original container with closed lid. Store away from incompatible materials.

SECTION 8: PERSONAL PROTECTION

Ingredient	Exposure limit – ACGIH	Exposure limit – OSHA	Exposure limit – IDLH
Lauryl alcohol ethylene oxide	Not available	Not available	Not available
D` Limonene	Not available	Not available	Not available
Glycol ether EB	TLV 20ppm / 96mg/m3	PEL 25ppm / 120mg/m3 (skin)	Not available
Sodium Xylene Sulfonate	Not available	Not available	Not available
Potassium hydroxide	Not available	Not available	Not available
Sodium laureth sulphate	Not available	Not available	Not available

Gloves: Chemical resistant gloves.

Respirator: Not required under normal usage.

Eye: Safety glasses if handling large amounts and if there is significant probability of splashes.

Clothing: Wear long sleeved clothing and trousers.

Other (Specify): An eye was and safety shower should be nearby.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid

Odour: Orange scent

Odour Threshold (ppm): <100 ppm OSHA (PEL)

pH: 13.3

Freezing Point: ~ 10°C

Initial Boiling Point/Range: ~ 89°C

Flash point: ~ 74°C

Evaporation Rate: Information not available

Flammability: Combustible liquid

Upper/lower flammability/explosive limit: Information not available

Vapour Pressure (mmHg): Not available

Vapour Density (air = 1): >1 (Heavier than air)

Relative density: Information not available

Solubility in Water: Soluble

Partition coefficient: Information not available

Auto-ignition temperature: Information not available

Decomposition temperature: Information not available

Viscosity: Information not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Will not occur.

Materials to Avoid: Incompatible substances such as strong acids.

Hazardous Decomposition Products: Avoid open flames, welding arcs or other high temperature sources which may induce thermal decomposition. May liberate carbon dioxide, carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingredient	LD50 oral (mg/kg) (rat)	LD50 dermal (mg/kg)	LC50 inhalation (mg/L)
Lauryl alcohol ethylene oxide	4150	72000	8600
D` Limonene	4400	>5000	Not available
Glycol ether EB	880	1060	925
Sodium Xylene Sulfonate	7200	2000	Not available
Potassium hydroxide	363	Not available	Not available
Sodium laureth sulphate	>2000	>2000	Not available

EFFECTS OF ACUTE EXPOSURE:

Ingestion: Ingestions of large amounts may cause nausea, headaches, vomiting and diarrhoea.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye damage.

Inhalation: May cause coughing, headaches, vomiting or nausea.

Germ cell mutagenicity: Not applicable

Carcinogenicity: D`limonene and glycol ether are listed by the IARC as Group 3: not classifiable as to its carcinogenicity to humans.

Reproductive toxicity: Not applicable

STOT single exposure: Not applicable

STOT repeated exposure: Not applicable

Aspiration hazard: Not applicable

Routes of exposure: Ingestion, inhalation, skin/eye exposure

EFFECTS OF CHRONIC EXPOSURE:

Skin Contact: Not known.

Eye Contact: Not known.

Ingestion: Not known

Numerical measures of toxicity:

Oral: LD50 6,039 mg/kg

Dermal: LD50 16,529 mg/kg

Inhalation: LC50 17,032 mg/L

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ingredient	Fish	Crustaceans	Algae
Lauryl alcohol ethylene oxide	LC ₅₀ (96h): 1400 µg/L	LC ₅₀ (48h): >6460 µg/L	Not available
D` Limonene	LC ₅₀ (96h): 0.619 - 0.796 mg/L (Pimephales promelas)	Not available	Not available
Glycol ether EB	LC ₅₀ (96h): 1490 mg/L (Lepomis macrochirus)	EC ₅₀ (24h): 1700mg/L (Daphnia magna)	EC ₅₀ : 720 mg/L (Pseudokirchnerella subcapitata)
Sodium Xylene Sulfonate	LC ₅₀ (96h): >1000 mg/L	EC ₅₀ (48h): >40.3 mg/L (Daphnia magna)	EC ₅₀ (96h): >230 mg/L
Potassium hydroxide	LC ₅₀ (96h): 179mg/L (Fathead minnow)	EC ₅₀ (48h): 60mg/L (Daphnia magna)	Not available
Sodium laureth sulphate	LC ₅₀ (96h): 2.3 mg/L	EC ₅₀ (48h): > 13 ppm	EC ₅₀ (72h): > 56 ppm

Persistence and Degradability: Materials are readily biodegradable.

Bioaccumulation/Accumulation: No information available.

Mobility: No information available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with local regulations at government approved waste sites.

SECTION 14: TRANSPORT INFORMATION

Special Shipping Information: None

TDG (Canada)

TDG Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide)

Hazard Class: 8

UN Number: UN3266

Packing Group: III

Note: No additional remark.

Marine Pollutant: None

SECTION 15: REGULATORY INFORMATION

Canadian DSL Inventory Status: All ingredients are specified on the Domestic Substances List or exempt

SECTION 16: OTHER INFORMATION

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