

Material Safety Data Sheet



LEMON-EZE

Section 1. Chemical product and company identification

Trade name : LEMON-EZE
Product use : Cleaning product
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 904789
Date of issue : 09-July-2008

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
silica, crystalline - quartz (NO Respirable dust)	14808-60-7	15 - 40
dodecylbenzenesulfonic acid	27176-87-0	7 - 13
alcohols, c9-11, ethoxylated	68439-46-3	7 - 13

Section 3. Hazards identification

Physical state : Liquid. [slurry]
Emergency overview : WARNING!

CAUSES SEVERE EYE IRRITATION. Untreated contact may cause chemical burns.
CAUSES SKIN IRRITATION.

May cause burns to mouth, throat and stomach.

Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Eyes : Severely irritating to eyes. Untreated contact may cause chemical burns.

Skin : Irritating to skin.

Inhalation : No known significant effects or critical hazards.

Ingestion : May cause burns to mouth, throat and stomach.

See toxicological information (section 11)

Section 4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air.

Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire-fighting measures

- Auto-ignition temperature** : Not available.
- Flash point** : > 100°C
Product does not support combustion.
- Flammable limits** : Not available.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
Dyke area of fire to prevent runoff.
- No specific fire or explosion 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.

Risk of explosion of the product in the presence of mechanical impact: Not available.

Risk of explosion of the product in the presence of static discharge: Not available.

Section 6. Accidental release measures

- Personal precautions** : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- 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.

Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Store between the following temperatures: 0 and 50°C

Section 8. Exposure controls/personal protection

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Personal protection :

- Eyes** : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
- Hands** : For prolonged or repeated handling, use the following type of gloves: Impervious gloves.
- Skin** : Use suitable protective equipment.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.

Name Exposure limits

silica, crystalline - quartz

CA British Columbia Provincial (Canada, 7/2007).TWA: 0.025 mg/m³ 8 hour(s). Form: Respirable**CA Quebec Provincial (Canada, 12/2006).**TWA: 0.1 mg/m³ 8 hour(s). Form: Respirable dust.**CA Alberta Provincial (Canada, 10/2006).**8 hrs OEL: 0.1 mg/m³ 8 hour(s). Form: Respirable particulate**ACGIH TLV (United States, 1/2007).**TWA: 0.025 mg/m³ 8 hour(s). Form: Respirable fraction

Section 9. Physical and chemical properties

Physical state	: Liquid. [slurry]
Colour	: White. [Light]
Odour	: citrus
pH	: 1.4 to 2.4 [Conc. (% w/w): 100%]
Boiling/condensation point	: 100°C (212°F)
Melting/freezing point	: Not available.
Relative density	: 1.2 to 1.3
Vapour pressure	: Not available.
Vapour density	: Not available.
Odour threshold	: Not available.
Evaporation rate	: Not available.
LogK_{ow}	: Not available.
Solubility	: Insoluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability	: Not available.
Reactivity	: Reactive or incompatible with the following materials: metals and alkalis.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerisation	: Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin	: Irritating to skin.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: May cause burns to mouth, throat and stomach.

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.

<u>Ingredient name</u>	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Not applicable.				

Mutagenic effects	: No known significant effects or critical hazards.
Teratogenic effects	: No known significant effects or critical hazards.
Reproductive effects	: No known significant effects or critical hazards.
Sensitization to Product	: No known significant effects or critical hazards.
Synergistic products (toxicologically)	: Not available.

Toxicity data

<u>Ingredient name</u>	<u>Test</u>	<u>Route</u>	<u>Result</u>	<u>Species</u>
dodecylbenzenesulfonic acid	LD50	Oral	650 mg/kg	Rat
alcohols, c9-11, ethoxylated	LD50	Dermal	>2 g/kg	Rabbit
	LD50	Oral	1378 mg/kg	Rat

Target organs : Contains material which may cause damage to the following organs: stomach.

Section 12. Ecological information**Ecotoxicity**

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>
Not available.		

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and 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 local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

UN Classification

UN number

Proper shipping name

Class

Packing group

Additional information

See shipping documents for specific transportation information.

Section 15. Regulatory information

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

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

Section 16. Other information

Date of issue : 09-July-2008.
Responsible name : Regulatory Affairs
 1-800-352-5326
Date of previous issue : 18-May-2007.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.