

1 Identification

- **Product name:** LEMINEE 64
- **Article number:** 1923278001, 1923390001
- **DIN:** 02247465
- **Recommended use:** Disinfectant hard surfaces
- **Restrictions on use:** All other uses than those indicated on the product label and technical data sheet
- **Uses advised against:** All other uses than those indicated on the product label and technical data sheet.
- **Manufacturer:**
Avmor LTD
950, Michelin
Laval, QC, H7L 5C1
Canada
1-800-387-8074
www.avmor.com
- **Emergency telephone number:** CANUTEC 1-613-996-6666

2 Hazard identification

- **Classification of the product as sold:**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements**
- **Hazard pictograms:**



GHS05

- **Signal word:** Danger
- **Hazard statements:**
Causes skin irritation.
Causes serious eye damage.
- **Precautionary statements:**
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water.
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 a doctor.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

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- **Classification system**
- **NFPA ratings (scale 0 - 4):**



Health = 2
Fire = 1
Reactivity = 0

- **Hazard not otherwise classified:** None Known
- **Notes:** For the wording of the listed abbreviations refer to section 16.

- **Product AT USE DILUTION:** N/A

3 Composition/Information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Aqueous mixture consisting of the following components:

· Components:		
	Quaternary Ammonium Compound	1-5%
68424-95-3	Quaternary ammonium compound, di-(C8-C10)-alkyldimethyl, chlorides	1-5%
68551-12-2	Alcohols C12-C16 ethoxylated	1-5%
64-02-8	Tetrasodium Ethylenediaminetetraacetate	0.5-1.5%

- **Additional information:** Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4 First aid measures

- **Description of first aid measures**
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation. Get medical attention.
- **After skin contact:**
Remove immediately all contaminated clothing. Rinse skin with water or shower for at least 15 minutes. Consult a doctor if skin redness and irritation persist.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do so. Continue rinsing for a minimum of 15 to 60 minutes. Then consult a doctor.
- **After ingestion:** If symptoms persist consult a doctor.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

5 Firefighting measures

- **Suitable extinguishing media:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- **Specific hazards arising from the product:** No further relevant information available.
- **Special protective equipment and precautions for fire-fighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
- **Additional information:** This product is not flammable.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear recommended protective equipment(s). Keep unprotected persons away.
- **Environmental precautions:** No special measures required.

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· Methods and material for containment and cleaning up:

Surround and absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

· Reference to other sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Conditions for safe storage, including any incompatibilities:** Keep in the original receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls/ Personal protection**· Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Undiluted Product**· Personal protective equipment:**

Protective gloves (See Protection of Hands)



Safety glasses (See Eye protection)

· General protective and hygienic measures:

Avoid contact with the eyes and skin.
The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.

· Breathing equipment: Not required.**· Protection of hands:**

Protective Gloves
Check protective gloves prior to each use for their proper condition

· Eye protection:

Safety glasses are suggested when using this product in heavy use and institutional environments
Wear splash-proof chemical goggles in an industrial environment.

· Body protection:

Protective work clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. (recommended)

· Product AT USE DILUTION:

- **Eye protection:** Safety glasses suggested under normal use conditions.

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9 Physical and chemical properties

· Form:	Liquid
· Colour:	Yellow
· Odour:	Citrus.
· Odor threshold:	Not determined
· pH-Value:	6.0-6.6
· Melting point/Melting range:	N/D
· Boiling point/Boiling range:	N/D
· Fusion temperature / range:	Not determined
· Flash point:	N/D
· Flammability (solid, gaseous):	Not applicable
· Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	N/D
· Relative density:	1,000-1,010
· Vapour density (air=1):	N/D
· Evaporation rate:	Not determined
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined
· Solvent content:	
VOC content:	N/D

10 Stability and reactivity

- **Reactivity:** Not determined.
- **Chemical stability:** The product is stable.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Avoid freezing and extreme heat conditions.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
In case of decomposition: carbon monoxide and carbon dioxide and traces of volatile halogenated compounds.

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11 Toxicological information

- Information on the likely routes of exposure
- Numerical measures of acute toxicity:

Components Mean of exposure	Type	Value (Species)
ATE (Acute Toxicity Estimate)		
Oral	LD50	7,105-7,505 mg/kg
Dermal	LD50	>16,160 mg/kg

68551-12-2 Alcohols C12-C16 ethoxylated

Oral	LD50	2,000-5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
Irritation of skin	OECD guideline 404	(Rat)
Irritation of eyes	OECD, guideline 405	1 (Rabbit)

Alkyl (C12-16) Dimethylbenzyl Ammonium Chloride

Oral	LD50	919 mg/kg (Mouse)
		426 mg/kg (Rat)
	LC50	240 mg/L (Rat)

64-02-8 Tetrasodium Ethylenediaminetetraacetate

Oral	LD50	850 mg/kg (Rat)
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- **Symptoms related to the physical, chemical and toxicological characteristics**
- **If on the skin:** Irritant to skin and mucous membranes.
- **If on the eye:**
CORROSIVE: Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- **After ingestion:** May cause irritation of the gastrointestinal tract, nausea, vomiting and headache.
- **Sensitization:** No sensitizing effects known.
- **Delayed and immediate effects, and chronic effects from short-term and long-term exposure:**
Prolonged or frequent contact can cause eczema and inflammation of the skins as a results of degreasing.
- **Carcinogenic categories:**

· IARC (International Agency for Research on Cancer)		
64-17-5	Ethanol	1

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** Not determined
- **Ecotoxicity:** No relevant information available.
- **Other adverse effects** No further relevant information available.

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13 Disposal considerations

Waste treatment methods recommendation:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with local authority requirements.

Dispose in accordance with all applicable federal, state, provincial and local laws and regulations. Contact your local, state, provincial or Federal environmental agency for specific rules.

Uncleaned packagings recommendation:

Do not re-use empty containers.

Dispose of packaging according to regulations on the disposal of packagings.

Recommended cleansing agent:

Water

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 Transport information

UN-Number

DOT, IMDG, IATA Not regulated.

UN proper shipping name

DOT, IMDG, IATA Not regulated.

Transport hazard class(es)**DOT, IMDG, IATA**

Class Not regulated.

Packing group

DOT, IMDG, IATA Not regulated.

Special precautions for user Not applicable.

UN "Model Regulation": Not regulated.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture**Canadian substance listings**

Canadian Domestic Substances List (DSL) Not all the ingredients are listed

Canadian Ingredient Disclosure list (limit 0.1%)

64-17-5	Ethanol
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Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Department issuing SDS:

Prepared by :

Regulatory Affairs Department

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· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent