

* 1 Identification

- **Product Identifier: EP66 Disinfectant and Sanitizer**
- **Other means of identification (Article number):** 1997
- **DIN/NPN:** 02271753
- **Recommended use:** Disinfectant hard surfaces
- **Restrictions on use:** All other uses than those indicated on the product label and technical data sheet
- **Manufacturer:**
Avmor Ltd.
950 Michelin
Laval, QC,
Canada
H7L 5C1
1-800-387-8074
www.avmor.com
- **Emergency telephone number:** CANUTEC 1-613-996-6666

2 Hazard identification

- **Classification:**
Acute Toxicity (Oral) - Category 4 H302 Harmful if swallowed.
Acute Toxicity (Inhalation) - Category 2 H330 Fatal if inhaled.
Skin Corrosion - Category 1C H314 Causes severe skin burns and eye damage.
Serious Eye Damage - Category 1 H318 Causes serious eye damage.

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



GHS05 GHS06

- **Signal word:** Danger
- **Hazard statements:**
H302 Harmful if swallowed.
H330 Fatal if inhaled.
H314 Causes severe skin burns and eye damage.
- **Precautionary statements:**
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

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P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

P320 Specific treatment is urgent (see on this label).

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional and national regulations.

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

3 Composition/Information on ingredients

· **Chemical characterization:** Mixtures· **Components:**

CAS NO. %	Chemical name or Common name	
68391-01-5	Alkyl (C12-C18) Dimethyl Benzyl Ammonium Chloride	5% w/w
85409-23-0	Alkyl (C12, C14) Dimethyl Ethylbenzyl Ammonium Chloride	5% w/w
64-17-5	Ethanol	0,5-1,5% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

· **Description of first aid measures**· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation. Get medical attention.

Use a respiration bag or breathing device.

· **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.

Immediately rinse with water.

· **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:**

Drink copious amounts of water and provide fresh air. Immediately call a doctor. Do not induce vomiting.

Do not induce vomiting; call a poison control center or a doctor immediately for treatment advice.

Rinse out mouth and then drink plenty of water.

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

5 Fire-fighting measures

· **Suitable extinguishing media:**CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

Use fire fighting measures that suit the environment.

· **For safety reasons unsuitable extinguishing agents:** Water· **Specific hazards arising from the product:** During heating or in case of fire poisonous gases are produced.

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Special protective equipment and precautions for fire-fighters:

Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

Mount respiratory protective device.

Wear recommended protective equipment(s). Keep unprotected persons away.

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.

Ensure adequate ventilation.

7 Handling and storage**Precautions for safe handling:**

Ensure good ventilation at the workplace.

Open and handle receptacle with care.

Conditions for safe storage, including any incompatibilities:

Keep in the original receptacle tightly sealed.

Store under lock and key and out of the reach of children.

8 Exposure controls/ Personal protection**Components with limit values that require monitoring at the workplace:****64-17-5 Ethanol**

EL STEL: 1000 ppm

EV TWA: 1,900 mg/m³, 1,000 ppm**Exposure controls:**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

Personal protective equipment:

Protective gloves (See Protection of Hands)



Safety goggles (see Eye protection)

General protective and hygienic measures:

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Do not inhale dust, smoke, mist gases, fumes or aerosols.

The usual precautionary measures for handling chemicals should be followed.

Do not eat or drink while working.

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- **Breathing equipment:**
Use suitable respiratory protective device in case of insufficient ventilation.
If room is well-ventilated, a respirator is not needed under normal and intended conditions of product use.
- **Protection of hands:**
Protective Gloves
Check protective gloves prior to each use for their proper condition
- **Eye protection:**
Protective glasses are recommended when handling concentrated product.
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:** Wear suitable protective clothing

9 Physical and chemical properties

- **Appearance:**
 - Form:** Liquid
 - Colour:** Colorless
- **Odour:** Quaternary
- **Odor threshold:** Not determined
- **pH:** 6.5-8.5
- **Melting point/Freezing point:** Not determined
- **Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not determined
- **Flammability (solid, gaseous):** Not applicable

- **Decomposition temperature:** Not determined

- **Auto igniting Temperature:** Product is not selfigniting.

- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.

- **Vapour pressure:**
 - Relative density:** 0.985-1.005
 - Vapour density (air=1):** <1 (aqueous solution)
 - Evaporation rate:** Not determined
- **Solubility in / Miscibility with Water:** Miscible

- **Partition coefficient (n-octanol/water):** Not determined

10 Stability and reactivity

- **Reactivity:**
Not determined.
No further relevant information available.
- **Chemical stability:** The product is stable.
- **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.

11 Toxicological information

- **Information on the likely routes of exposure** Skin and eyes contact
- **Numerical measures of acute toxicity:**

Components	Type	Value (Species)
Mean of exposure		
ATE (Acute Toxicity Estimate)		
Oral	LD50	5.652 mg/kg

68391-01-5 Alkyl (C12-C18) Dimethyl Benzyl Ammonium Chloride		
Oral	LD50	650 mg/kg (Rat)
64-17-5 Ethanol		
Oral	LD50	7.060 mg/kg (Rat)
Inhalative	LC50 (4 h)	20.000 mg/L (Rat)

- **Symptomes related to the physical, chemical and toxicological characteristics**
- **If on the skin:** CORROSIVE: Strong caustic effect on 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.

12 Ecological information

- **Persistence and degradability:**
- **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.

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/TDG, IMDG, IATA** UN1760

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- **UN proper shipping name**
- **DOT/TDG** RQ Corrosive liquids, n.o.s. (Quaternary Ammonium Compound, Quaternary Ammonium Compound)
- **IMDG, IATA** CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides, Quaternary Ammonium Compound)
- **Transport hazard class(es)**
- **DOT/TDG (Transport dangerous goods):**



- **Class** 8 Corrosive substances
- **Class** 8 Corrosive substances
- **Packing group**
- **DOT/TDG, IMDG, IATA** III
- **Special marking (IATA):**
- **Limited quantities (LQ)** 5L

* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Canadian substance listings

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

64-17-5 | Ethanol

· 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.

· NFPA ratings (scale 0 - 4):



Health = 3
Fire = 0
Reactivity = 0

· Department issuing SDS:

Prepared by :
Regulatory Affairs Department

- **Contact:** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.