

### 1 Identification

- **Product name:** EP77 Heavy Duty Washroom Cleaner
- **Article number:** 2096257001, 2096278001
- **Recommended use:** Bathroom cleaner
- **Restrictions on use:** 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:**  
Acute Tox. 4 H302 Harmful if swallowed.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Dam. 1 H318 Causes serious eye damage.

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



GHS05 GHS07

- **Signal word:** Danger
- **Hazard statements:**  
Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye damage.
- **Precautionary statements:**  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.  
IF ON SKIN: Wash with plenty of water.  
Immediately call a POISON CENTER or a doctor.  
Rinse mouth.  
If skin irritation occurs: Get medical advice/attention.

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Take off contaminated clothing and wash it before reuse.

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

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



Health = 1  
Fire = 0  
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:

· <b>Components:</b>		
	Organic Salt Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	5-10%
68991-48-0	Alcohols C7-21 Ethoxylated Eye Irrit. 2A, H319	1-5%
70592-80-2	Amines C10-16-Alkyldimethyl N-Oxides Acute Tox. 3, H311; Acute Tox. 4, H302	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:** Immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**5 Firefighting measures**

- **Suitable extinguishing media:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.
- **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.

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## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Wear recommended protective equipment(s). Keep unprotected persons away.  
Protective gloves (See Protection of Hands)
- **Environmental precautions:** Dilute with plenty of water.
- **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:**
  -  Safety glasses (See Eye protection)
  -  acid resistant gloves (recommended)
  -  Protective clothing (If applicable, see Body protection for more details)
- **General protective and hygienic measures:**  
Avoid contact with the eyes and skin.  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not eat or drink while working.
- **Breathing equipment:** Not required.

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- **Protection of hands:**  
Protective Gloves  
Acid resistant gloves  
Check protective gloves prior to each use for their proper condition
- **Eye protection:**  
Tightly sealed goggles  
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 clothing is recommended only under exceptional circumstances such as fire or spill of concentrated product  
Acid resistant protective clothing (recommended)

**9 Physical and chemical properties**

- **Form:** Liquid
- **Colour:** Purple
- **Odour:** Odourless
- **Odor threshold:** Not determined
- **pH-Value:** ≤2.5
- **Melting point/Melting range:** Not determined
- **Boiling point/Boiling range:** N/D
- **Fusion temperature / range:** Not determined
- **Flash point:** Not determined
- **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:** 1,030-1,040
- **Vapour density (air=1):** <1 (aqueous solution)
- **Evaporation rate:** Not determined
- **Solubility in / Miscibility with Water:** Fully miscible
  
- **Partition coefficient (n-octanol/water):** Not determined

**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:** Reacts with alkali.
- **Conditions to avoid:** Avoid freezing and extreme heat conditions.

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- **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**
- **Numerical measures of acute toxicity:**

Components	Type	Value (Species)
<b>Mean of exposure</b>		
<b>ATE (Acute Toxicity Estimates)</b>		
Oral	LD50	12811 mg/kg (Rat)
Dermal	LD50	22807 mg/kg
Inhalative	LC50 (4 h)	3333 mg/L (Rat)

<b>Organic Salt</b>		
Oral	LD50	1357 mg/kg (Rat)

<b>68991-48-0 Alcohols C7-21 Ethoxylated</b>		
Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
Inhalative	LC50 (4 h)	>100 mg/L (Rat)
Irritation of skin	OECD guideline 404	cat. 3 (Rabbit)
Irritation of eyes	OECD, guideline 405	cat. 2B (Rabbit)
Sensitization	OECD, guideline 406	Not classified. (guinea pig)

<b>70592-80-2 Amines C10-16-Alkyldimethyl N-Oxides</b>		
Oral	LD50	>600 mg/kg (Rat)
Dermal	LD50	>520 mg/kg (Rabbit)

- **Symptomes 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:**

<b>IARC (International Agency for Research on Cancer)</b>		
7722-84-1	Hydrogen peroxide	3

**12 Ecological information**

- **Persistence and degradability:**  
The surfactants and organic compounds contained in this product are readily biodegradable according to the OECD 301 guideline.
- **Bioaccumulative potential:** Does not accumulate in organisms.
- **Mobility in soil:** Not determined
- **Ecotoxicity:** No relevant information available.

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- **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, IATA** Not regulated.

- **IMDG** UN3082

- **UN proper shipping name**

- **DOT, IATA** Not regulated.

- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amines C10-16 - alkyldiméthyl N-oxides, Alcohols C7-C21 Ethoxylated), MARINE POLLUTANT

- **Transport hazard class(es)**

- **DOT, IATA**

- **Class** Not regulated.

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- **IMDG**

- **Class** 9 Miscellaneous dangerous substances and articles

- **Packing group**

- **DOT, IATA** Not regulated.

- **IMDG** III

**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 1%)**

68991-48-0	Alcohols C7-21 Ethoxylated
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**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.

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• **Department issuing SDS:**

Prepared by :  
Regulatory Affairs Department

• **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
P: Marine Pollutant  
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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent