

1 Identification

- **Product Identifier:** EP77 Heavy Duty Washroom Cleaner
- **Other means of identification (Article number):** 2096
- **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,
Canada
H7L 5C1
1-800-387-8074
www.avmor.com
- **Emergency telephone number:** CANUTEC 1-613-996-6666

2 Hazard identification

- **Classification:**
Serious Eye Damage - Category 1 H318 Causes serious eye damage.
- **Label elements**
- **Hazard pictograms:**



GHS05

- **Signal word:** Danger
- **Hazard statements:**
H318 Causes serious eye damage.
- **Precautionary statements:**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
- **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	%
77-92-9	Citric acid	10-30% w/w *

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68551-12-2	Alcohols C12-C16 ethoxylated	1-5% w/w *
68439-46-3	Alcohols, C9-11 ethoxylated, < 2.5 EO	1-5% w/w *
70592-80-2	Amines C10-16-Alkyldimethyl N-Oxides	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:** Rarely cause discomfort; supply fresh air and consult physician in case of complaints.

- **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.

May induce a skin irritation.

- **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 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:** Not Determined

- **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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**

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.

7 Handling and storage

- **Precautions for safe handling:** No special precautions are necessary if used correctly.

- **Conditions for safe storage, including any incompatibilities:** Keep in the original receptacle tightly sealed.

*** 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.

Not required.

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· Exposure controls:

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:

Safety glasses (Suggested)



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.

Wash hands before breaks and at the end of work.

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

Acid resistant gloves

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 (suggested)

Safety glasses are suggested when using this product in heavy use and institutional environments

· 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

· Appearance:**Form:**

Clear Liquid

Colour:

Purple

· Odour:

Odourless

· Odor threshold:

Not determined

· pH:

2.5

· Melting point/Freezing point:

Not determined

≈ 0

· Boiling point/Boiling range:

100 °C

· Flash point:

Not determined

· Flammability (solid, gaseous):

Not applicable

· Decomposition temperature:

Not determined

· Auto igniting Temperature:

Product is not selfigniting.

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- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
 - Relative density:** Not determined.
 - Vapour density (air=1):** <1 (aqueous solution)
 - Evaporation rate:** Not determined
- **Solubility in / Miscibility with Water:** Soluble
- **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	>13.697-14.871 mg/kg
Dermal	LD50	>26.005 mg/kg
77-92-9 Citric acid		
Oral	LD50	5.040 mg/kg (Mouse)
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)
70592-80-2 Amines C10-16-Alkyldimethyl N-Oxides		
Oral	LD50	>600 mg/kg (Rat)
Dermal	LD50	>520 mg/kg (Rabbit)

- **Symptomes related to the physical, chemical and toxiological characteristics**
- **If on the skin:** May cause irritation by prolonged contact with skin.
- **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.

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- **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

- **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** Not regulated.
- **UN proper shipping name**
- **DOT/TDG, IMDG, IATA** Not regulated.
- **Transport hazard class(es)**
- **DOT, IMDG, IATA**
- **Class** Not regulated.
- **Packing group**
- **DOT/TDG, IMDG, IATA** Not regulated.

*** 15 Regulatory information**

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

- **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%)**

None of the ingredients is listed.

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Canadian Ingredient Disclosure list (limit 1%)	
77-92-9	Citric acid

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.