

1 Identification

- **Product name:** S-22 Cleaner Descaler for floors and bathrooms
- **Other means of identification (Article number):** 2002
- **Recommended use:**
Bathroom cleaner
Floor cleaner
- **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 Corr. 1C H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

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



GHS05

- **Signal word:** Danger
- **Hazard statements:**
Causes severe skin burns and eye damage.
- **Precautionary statements:**
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
Specific treatment (see on this label).

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Wash contaminated clothing before reuse.

Store locked up.

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

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



Health = 3
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:
- **Components:**

No. Cas	Designation
Concentration(%)	

77-92-9	Citric acid	10-30%
68551-12-2	Alcohols C12-C16 ethoxylated	1-5%
68439-46-3	Alcohols, C9-11 ethoxylated, < 2.5 EO	1-5%
70592-80-2	Amines C10-16-Alkyldimethyl N-Oxides	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:** 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.
- **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.
Use fire fighting measures that suit the environment.
- **Specific hazards arising from the product:** During heating or in case of fire poisonous gases are produced.
- **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:**

Mount respiratory protective device.

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

· **Environmental precautions:** No special measures required.

· **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.

Use neutralizing agent (eg. sodium bicarbonate).

· **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:** Ensure good ventilation at the workplace.

· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **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.

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

· **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.

· **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.

· **Undiluted Product**

· **Personal protective equipment:**



Safety glasses (Suggested)



acid resistant gloves (recommended)

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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

The glove material has to be impermeable and resistant to the product.

Protective Gloves

Check protective gloves prior to each use for their proper condition

· Eye protection:

Safety glasses (suggested)

Protective glasses are recommended when handling concentrated product.

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)

· Product AT USE DILUTION:**· Eye protection:** Safety glasses suggested under normal use conditions.**9 Physical and chemical properties**

- **Form:** Liquid
- **Colour:** Colorless
- **Odour:** Odourless
- **Odor threshold:** Not determined
- **pH-Value:** 2.0-3.5
- **pH Value (diluted product):**
- Melting point/Freezing point:** Not determined
- Boiling point/Boiling range:** N/D
- Fusion temperature / range:** Not determined
- **Flash point:** Not determined
- **Flammability (solid, gaseous):** Not applicable
- **Ignition temperature:** N/D
- **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

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- **Relative density:** 1,030-1,040
- **Vapour density (air=1):** <1 (aqueous solution)
- **Evaporation rate:** Not determined
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **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.
- **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 Mean of exposure	Type	Value (Species)
ATE (Acute Toxicity Estimate)		
Oral	LD50	>20,196-22,981 mg/kg (Rat)
Dermal	LD50	>20,472 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)
68439-46-3 Alcohols, C9-11 ethoxylated, < 2.5 EO		
Oral	LD50	1,378 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)
Irritation of skin	OECD guideline 404	(Rabbit)
Irritation of eyes	OECD, guideline 405	~1 (Rabbit)
Sensitization	OECD, guideline 406	(guinea pig)
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 toxicological characteristics**
- **If on the skin:** CORROSIVE: Strong caustic effect on skin and mucous membranes.
- **If on the eye:**
CORROSIVE: Strong caustic effect.

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- 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)	
7722-84-1 Hydrogen peroxide	3
• NTP (National Toxicology Program)	
None of the ingredients is listed.	

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.
- **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, IMDG, IATA** UN3265
- **UN proper shipping name**
- **DOT+TDG** Corrosive liquid, acidic, organic, n.o.s.
- **IMDG, IATA** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
- **Transport hazard class(es)**
- **DOT+TDG**
- **Class** 8 Corrosive substances
- **Label** 8
- **IMDG, IATA**
- **Class** 8 Corrosive substances

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- **Packing group**
- **DOT, IMDG, IATA** III
- **Special precautions for user** Warning: Corrosive substances
- **Danger code (Kemler):** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** Acids
- **UN "Model Regulation":** UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, 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 0.1%)

None of the ingredients is listed.

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.

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.

- **Date of preparation:** 08/15/2018 / 1