

### 1 Identification

- **Product name:** EP91 Pot and Pan Detergent
- **Article number:** 2218214001, 2218278002
- **Recommended use:** Hand dish washing agent
- **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:**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.

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



GHS07

- **Signal word:** Warning
- **Hazard statements:**  
Causes skin irritation.  
Causes serious eye irritation.
- **Precautionary statements:**  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash thoroughly after handling.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of water.  
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):**



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

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- **Product AT USE DILUTION:** N/A
  - **Dilution Rate:** 1:500
  - **Classification of the diluted product:**  
This product, when diluted as stated on the label, is not classified as hazardous according to the Canadian Hazardous Products Regulations (HPR) (WHMIS 2015-GHS).
  - **Precautionary Statements:** None Required.

**3 Composition/Information on ingredients**

- **Chemical characterization:** Mixtures
- **Description:**

· **Components:**

9004-82-4	Sodium lauryl ether sulfate	3-7%
27176-87-0	dodecylbenzenesulphonic acid	1-5%
68584-22-5	Benzenesulfonic Acid	1-5%
68439-57-6	Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	0.5-1.5%
70851-07-9	Cocoamidopropyl betaine	0.5-1.5%
7647-14-5	Sodium Chloride	0.5-1.5%
1310-73-2	Sodium Hydroxide	0.1-1.0%

- **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. If symptoms persist, 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.

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- **Product AT USE DILUTION:**
  - **After inhalation:** No specific first aid measures are required
  - **After skin contact:** Rinse with plenty of water. If irritation occurs and persists, get medical attention.
  - **After eye contact:** Rinse with plenty of water. If irritation occurs and persists, get medical attention.
  - **After ingestion:** Rinse mouth with water. Get medical attention if symptoms occur.

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## 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.

## 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).
- **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:** Unsuitable material for receptacle: aluminium.
- **Information about storage in one common storage facility:** Not required.
- **Conditions for safe storage, including any incompatibilities:**  
Keep in the original receptacle tightly sealed.  
Do not store in aluminium or galvanised containers nor use die-cast zinc or aluminium bungs;  
plastic bungs should be used.
- **Specific end use(s):** No further relevant information available.

## 8 Exposure controls/ Personal protection

- **Components with limit values that require monitoring at the workplace:**

**1310-73-2 Sodium Hydroxide**EL Ceiling limit value: 2 mg/m<sup>3</sup>EV Ceiling limit value: 2 mg/m<sup>3</sup>

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- **Undiluted Product**
- **Personal protective equipment:**



Safety glasses (See Eye protection)



Protective gloves (see Protection of hands)

- **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:**  
No personal protective equipment required under normal use conditions.  
Protective gloves are recommended when handling concentrated product.  
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
- **Body protection:** No special measures required.

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- **Product AT USE DILUTION:**
  - **Personal Protective Equipment:**
  - **Protection of hands:** No personal protective equipment required under normal use conditions.
  - **Eye protection:** No personal protective equipment required under normal use conditions.
  - **Skin and body protection:** No personal protective equipment required under normal use conditions.
  - **Respiratory protection:** No personal protective equipment required under normal use conditions.

**9 Physical and chemical properties**

- **Form:** Liquid
- **Colour:** Yellow
- **Odour:** Odourless
- **Odor threshold:** Not determined
- **pH-Value:** 6.5 - 8.5 (25 °C)
- **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:** N/D
- **Decomposition temperature:** Not determined
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.

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- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapour pressure:** N/D
- **Relative density:** 1.020 - 1.040 (25 °C)
- **Vapour density (air=1):** Not determined.
- **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:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:**  
In contact with most metals, produces hydrogen gas, a flammable and explosive gas. It is particularly corrosive to aluminium, tin, lead, and zinc.
- **Hazardous decomposition products:**  
Hydrogen.  
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	12923 mg/kg (Rat)
Dermal	LD50	18445 mg/kg
<b>9004-82-4 Sodium lauryl ether sulfate</b>		
Oral	LD50	4100 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
Irritation of skin	OECD guideline 404	cat. 2 (Rabbit)
Irritation of eyes	OECD, guideline 405	cat. 2A (Rabbit)
<b>27176-87-0 dodecylbenzenesulphonic acid</b>		
Oral	LD50	1150 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
<b>68584-22-5 Benzenesulfonic Acid</b>		
Oral	LD50	500 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)

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<b>68439-57-6 Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts</b>		
Oral	LC50	>2000 mg/L (Rat)
<b>70851-07-9 Cocoamidopropyl betaine</b>		
Oral	LD50	≥ 4900 mg/kg (Rat)
Dermal	LD50	> 2000 mg/kg (Rat)
<b>7647-14-5 Sodium Chloride</b>		
Oral	LD50	3550 mg/kg (Rat)
<b>1310-73-2 Sodium Hydroxide</b>		
Oral	LD50	240 mg/kg (Rat)
<b>68131-39-5 Alcohols (C12-15) Ethoxylated</b>		
Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
Irritation of skin	OECD guideline 404	Not classified. (Rabbit)
Irritation of eyes	OECD, guideline 405	cat. 1 (Rabbit)
Sensitization	OECD, guideline 406	Not classified. (guinea pig)

- **Symptomes related to the physical, chemical and toxicological characteristics**

- **If on the skin:** Irritant to skin and mucous membranes.
- **If on the eye:** Irritating effect.
- **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)**

None of the ingredients is listed.

- **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:**

Do not allow product to reach sewage system unless significantly diluted or neutralized.

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.

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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.

**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

• <b>Canadian Ingredient Disclosure list (limit 0.1%)</b>
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None of the ingredients is listed.

• <b>Canadian Ingredient Disclosure list (limit 1%)</b>
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27176-87-0 | dodecylbenzenesulphonic 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

- **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent