

1. Identification

. Product identifier

. Trade 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,

Canada

H7L 5C1

1-800-387-8074

www.avmor.com

. **Emergency telephone number:** CANUTEC 1-613-996-6666

2. Hazard identification

. Classification of the product



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

. **Signal word:** Warning

. **Precautionary statements:**

P264 Wash thoroughly after handling.

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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

. **Classification system:**

. **NFPA ratings (scale 0 - 4):**



Health = 1

Fire = 0

Reactivity = 0

. **Hazard not otherwise classified:** None

. **Notes:** For the wording of the listed abbreviations refer to section 16.

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3. Composition/Information on ingredients

. Chemical characterization: Mixtures**. Description:****. Components:**

CAS No.	Description	Concentration
9004-82-4	Sodium lauryl ether sulfate	5-<10%
27176-87-0	dodecylbenzenesulphonic acid	1-≤2.5%
68584-22-5	Benzenesulfonic Acid, C10-16 Alkyl Derivs.	1-≤2.5%
68439-57-6	Sulfonic acids, C14-16-alkane hydroxy andC14-16-alkene, sodium salts	0.1-≤2.5%
70851-07-9	Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with chloroacetic acid, sodium salts	0.1-≤2.5%
1310-73-2	Sodium Hydroxide	0.5-<1%

. 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**. General information:****. After inhalation:**

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

. After skin contact: Immediately wash with water and soap and rinse thoroughly.

. 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.

. Information for doctor:

. 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 or alcohol resistant foam.

. Specific hazards arising from the product: No further relevant information available.

. Special protective equipment and precautions for fire-fighters: No special measures required.

. Additional information:

This product is not flammable.

See -Section 9- for the flammability characteristics of this product.

6. Accidental release measures

. Personal precautions, protective equipment and emergency procedures:

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

. 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).

Ensure adequate ventilation.

. Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7. Handling and storage

- . **Handling:**
- . **Precautions for safe handling:** Ensure good ventilation at the workplace.
- . **Information about protection against explosions and fires:** No special measures required.

- . **Conditions for safe storage, including any incompatibilities:**
- . **Storage:**
- . **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

- . **Control parameters:**

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

1310-73-2 Sodium HydroxideEL | Ceiling limit value: 2 mg/m³EV | Ceiling limit value: 2 mg/m³

- . **Additional information:** The lists that were valid during the creation were used as basis.

- . **Exposure controls:**

- . **Personal protective equipment:**



Safety goggles (see Eye protection)



Protective gloves (see Protection of hands)

- . **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- . **Breathing equipment:** Not required.

- . **Protection of hands:**

No personal protective equipment required under normal use conditions.

Protective gloves are recommended when handling concentrated product.

- . **Eye protection:**

No personal protective equipment required under normal use conditions.

Wear splash-proof chemical goggles in an industrial environment.

- . **Body protection:** No special measures required.

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9. Physical and chemical properties**. Information on basic physical and chemical properties:****. General Information:****. Appearance:**

- | | |
|-----------------|-----------------|
| Form: | Liquid. |
| Colour: | Yellow |
| Odour: | Odourless. |
| Odor threshold: | Not determined. |

pH-value at 25 °C:	7.0 - 8.0
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. Change in condition:

- | | |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 100 °C |

Flash point:	Not determined.
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Flammability (solid, gaseous):	Not applicable.
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Ignition temperature:	250 °C
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Decomposition temperature:	Not determined.
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Auto igniting:	Product is not selfigniting.
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Danger of explosion:	Product does not present an explosion hazard.
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. Explosion limits:

- | | |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

Vapour pressure at 20 °C:	23 hPa Not determined.
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Density at 25 °C:	1.020 - 1.040 g/cm ³
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Relative density	Not determined.
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Vapour density (air=1):	Not determined.
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Evaporation rate:	Not determined.
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. Solubility in / Miscibility with:

Water:	Fully miscible
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Partition coefficient (n-octanol/water):	Not determined.
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. Viscosity:

- | | |
|------------|-----------------|
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

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10. Stability and reactivity

- . **Reactivity:** Not determined.
- . **Chemical stability:**
- . **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:**
- . **Acute toxicity:**
- . **Numerical measures of toxicity:**

Components	Type	Value (Species)
Mean of exposure		
ATE (Acute Toxicity Estimates)		
Oral	LD50	12923 mg/kg (Rat)
Dermal	LD50	18445 mg/kg
9004-82-4 Sodium lauryl ether sulfate		
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)
27176-87-0 dodecylbenzenesulphonic acid		
Oral	LD50	1150 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
68584-22-5 Benzenesulfonic Acid, C10-16 Alkyl Derivs.		
Oral	LD50	500 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)
68439-57-6 Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		
Oral	LC50	>2000 mg/L (Rat)
70851-07-9 Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with chloroacetic acid, sodium salts		
Oral	LD50	≥ 4900 mg/kg (Rat)
Dermal	LD50	> 2000 mg/kg (Rat)
1310-73-2 Sodium Hydroxide		
Oral	LD50	240 mg/kg (Rat)
68131-39-5 Alcohols (C12-15) Ethoxylated		
Oral	LD50	>5000 mg/kg (Rat)

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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)

. Symptoms 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.

. Additional toxicological information:The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant.**. 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**. Toxicity****. Aquatic toxicity:****9004-82-4 Sodium lauryl ether sulfate**

LC50 (96 h, OECD guideline 203) (Dynamic)	7.1 mg/L (danio rerio [zebrafish])
EC50 (48 h, OECD guideline 202) (Static)	7.4 mg/L (daphnia magna [water flea])
EC50 (72 h, OECD guideline 201) (Static)	27 mg/L (Desmodesmus Subspicatus)
NOEC	0.67 mg/L (pimephales promelas [fathead minnow]) (NOEC (45 d, OECD guideline 210))

27176-87-0 dodecylbenzenesulphonic acid

LC50 (96 h)	4.1 mg/L (pimephales promelas [fathead minnow])
EC50 (72 h, OECD guideline 201)	7.9 mg/L (Algae)

68584-22-5 Benzenesulfonic Acid, C10-16 Alkyl Derivs.

LC50 (96 h, OECD guideline 203)	1.2 mg/L (fish)
EC50 (48 h)	>1000 mg/L (daphnia magna [water flea])
EC50 (72 h, OECD guideline 201)	>1000 mg/L (Pseudokirchnerella Subcapitata)

1310-73-2 Sodium Hydroxide

EC50 (48 h) (Static)	40.4 mg/L (Ceriodaphnia Dubia)
EC50 (96 h)	196 mg/L (fish)

68131-39-5 Alcohols (C12-15) Ethoxylated

LC50 (96 h, OECD guideline 203)	1.3-1.7 mg/L (oncorhynchus mykiss [rainbow trout])
EC50 (48 h, OECD guideline 202)	0.23 mg/L (daphnia magna [water flea])
EC50 (72 h, OECD guideline 201) (Static)	0.75 mg/L (Pseudokirchnerella Subcapitata)

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NOEC (30 d, OECD directive 204) (Dynamic)	>1 mg/L (pimephales promelas [fathead minnow])
NOEC (21 d, ASTM 1988)	0.77 mg/L (daphnia magna [water flea])

. 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.

. **Ecotoxicity:** No relevant information available.

. Remark:

Harmful to fish (Product as sold).

See section 13- Disposal considerations.

. Results of PBT and vPvB assessment

. **PBT:** Not applicable.

. **vPvB:** Not applicable.

. **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.

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** Not regulated.

. Transport hazard class(es)**. DOT, IATA**

. **Class** Not regulated.

. Packing group

. **DOT** Not regulated.

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15. Regulatory information

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

. **Canadian Ingredient Disclosure list (limit 1%)**

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.

. **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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative