

1 Identification

- **Product name:** EP40 HE Laundry Detergent
- **Article number:** 2322275001, 2322167001
- **Recommended use:** Laundry detergent
- **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 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:**
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

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- **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:

· Components:		
68439-46-3	Alcohols C9-C11 Ethoxylated	1-5%
110615-47-9	D-Glucopyranose C10-16 Alkyl Glycosides	1-5%
66455-14-9	Alcohols (C12-C13) Ethoxylated	1-5%
61788-47-4	Fatty acids, coco	0.5-1.5%
68584-22-5	Benzenesulfonic Acid	0.5-1.5%
27176-87-0	dodecylbenzenesulphonic acid	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.

- **Product AT USE DILUTION:**
- **After inhalation:** No specific first aid measures are required

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:** 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.

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- **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.
Not required.
- **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).
- **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 HydroxideEL | Ceiling limit value: 2 mg/m³EV | Ceiling limit value: 2 mg/m³

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



Safety glasses (See Eye protection)

- **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:**
No personal protective equipment required under normal use conditions.
Protective glasses are recommended when handling concentrated product.
Safety glasses are suggested when using this product in heavy use and institutional environments

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

9 Physical and chemical properties

- **Form:** Liquid
- **Colour:** Yellowish.
- **Odour:** Mountain breeze.
- **Odor threshold:** Not determined
- **pH-Value:** 9.5-10.5
- **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:** 1,010-1,050
- **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 acids.
- **Conditions to avoid:** Avoid freezing and extreme heat conditions.
- **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.

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11 Toxicological information

- Information on the likely routes of exposure
- Numerical measures of acute toxicity:

Components Mean of exposure	Type	Value (Species)
ATE (Acute Toxicity Estimate)		
Oral	LD50	13984 mg/kg (Rat)
Dermal	LD50	18516 mg/kg

68439-46-3 Alcohols C9-C11 Ethoxylated

Oral	LD50	1378 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)
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)

110615-47-9 D-Glucopyranose C10-16 Alkyl Glycosides

Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)
Irritation of skin	OECD guideline 404	cat. 2 (Rabbit)
Irritation of eyes	OECD, guideline 405	cat. 1 (Rabbit)
Sensitization	OECD, guideline 406	cat. 2 (guinea pig)

68584-22-5 Benzenesulfonic Acid

Oral	LD50	500 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)

27176-87-0 dodecylbenzenesulphonic acid

Oral	LD50	1150 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)

1310-73-2 Sodium Hydroxide

Oral	LD50	240 mg/kg (Rat)
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- **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.

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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.

· Remark: See section 13- Disposal considerations.

· 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, IATA Not regulated.

· IMDG UN3082

· UN proper shipping name

· DOT, IATA Not regulated.

· IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C9-C11, Ethoxylated, Alcohols (C12-C13) Ethoxylated), MARINE POLLUTANT

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

· Class Not regulated.

· IMDG

· Class 9 Miscellaneous dangerous substances and articles

· Packing group

· DOT, IATA Not regulated.

· IMDG

· Marine pollutant: Yes (P)

Yes (DOT)

· Special precautions for user Not applicable.

· EMS Number: F-A,S-F

· UN "Model Regulation": 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) Not all the ingredients are listed

· Canadian Ingredient Disclosure list (limit 0.1%)
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None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)
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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