

1 Identification

- **Product name:** EP60 Metalon
- **Article number:** 2334210001, 2334167001
- **Recommended use:** Stainless Steel Cleaner Polish
- **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.
Skin Sens. 1 H317 May cause an allergic skin reaction.

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



GHS07

- **Signal word:** Warning
- **Hazard statements:**
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
- **Precautionary statements:**
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear protective gloves.
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).

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If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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

- **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:		
68551-12-2	Alcohols C12-C16 ethoxylated	5-10%
68439-46-3	Alcohols C9-C11 Ethoxylated	1-5%
1356964-77-6	N,N-dimethyl 9-decenamide	1-5%
68956-56-9	Hydrocarbons, terpene processing by-products	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.

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.
- **Additional information:** This product is not flammable.

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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).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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:** No special measures required.
- **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.
- **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.

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



Protective gloves (See Protection of Hands)



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:**
Protective Gloves
Check protective gloves prior to each use for their proper condition
- **Eye protection:** Safety glasses are suggested when using this product in heavy use and institutional environments

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· Body protection:

Protective work clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. (recommended)

9 Physical and chemical properties

- **Form:** Opaque Liquid
- **Colour:** White
- **Odour:** Agrume/orange.
- **Odor threshold:** Not determined
- **pH-Value:** 4.5-6.5
- **Melting point/Melting range:** Not determined
- **Boiling point/Boiling range:** N/D
- **Fusion temperature / range:** Not determined
- **Flash point:** N/D
- **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:** 0.950-1,050
- **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:** 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.

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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	7627 mg/kg (Rat)
Dermal	LD50	12165 mg/kg
Inhalative	LC50 (4 h)	120782 mg/L (Rat)

68551-12-2 Alcohols C12-C16 ethoxylated

Oral	LD50	2000-5000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
Irritation of skin	OECD guideline 404	Not classified. (Rat)
Irritation of eyes	OECD, guideline 405	Cat. 1 (Rabbit)

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)

1356964-77-6 N,N-dimethyl 9-decenamide

Oral	LD50	550 mg/kg (Rat) (Conformément à OPPTS 870.1100 et OCDE 425)
Dermal	LD50	>2000 mg/kg (Rabbit) (OECD Guideline 402 (Acute Dermal Toxicity))
Inhalative	LC50 (4 h)	>3551 mg/L (Rat) (OECD Guideline 403 (Acute Inhalation Toxicity))

68956-56-9 Hydrocarbons, terpene processing by-products

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

- **Symptomes related to the physical, chemical and toxicological characteristics**
- **By inhalation:** Not applicable
- **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:** Sensitization possible through skin contact.
- **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.

· 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 UN3082

· UN proper shipping name

· DOT+TDG Environmentally hazardous substances, liquid, n.o.s. (Alcohols C12-C16 ethoxylated, Alcohols C9-C11 Ethoxylated)

· IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols C12-C16 ethoxylated, Alcohols, C9-C11, Ethoxylated), MARINE POLLUTANT

· IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols C12-C16 ethoxylated, Alcohols, C9-C11, Ethoxylated)

· Transport hazard class(es)**· DOT+TDG**

· Class 9 Miscellaneous dangerous substances and articles

· Label

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· IMDG, IATA**· Class**

9 Miscellaneous dangerous substances and articles

· Packing group**· DOT, IMDG, IATA**

III

· Marine pollutant:

Yes (DOT)
Symbol (fish and tree)

· Special precautions for user Not applicable.

Warning: Miscellaneous dangerous substances and articles

· Danger code (Kemler):

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- **EMS Number:** F-A,S-F
- **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (ALCOHOLS C12-C16 ETHOXYLATED, ALCOHOLS C9-C11 ETHOXYLATED), 9, III

15 Regulatory information

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

· Canadian Domestic Substances List (DSL)
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All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

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