1 Identification

· **Product name:** EP83 FLOOR STRIPPER
· **Article number:** 2242278001, 2242334001
· **Recommended use:**
  - Paint remover
  - Floor stripper
· **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:**
  - Flam. Liq. 3 H226 Flammable liquid and vapour.
  - Skin Corr. 1C H314 Causes severe skin burns and eye damage.
  - Eye Dam. 1 H318 Causes serious eye damage.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· **Label elements**
· **Hazard pictograms:**

![Pictograms](image)

  - GHS02
  - GHS05
  - GHS07

· **Signal word:** Danger
· **Hazard statements:**
  - Flammable liquid and vapour.
  - Causes severe skin burns and eye damage.
  - May cause an allergic skin reaction.
  - May cause respiratory irritation. May cause drowsiness or dizziness.

· **Precautionary statements:**
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - Use explosion-proof [electrical/ventilating/lighting] equipment.
  - Do not breathe dust/fume/gas/mist/vapours/spray.
  - Ground and bond container and receiving equipment.
  - Wear protective gloves/protective clothing/eye protection/face protection.
Use non-sparking tools.
Take actions to prevent static discharges.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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 INHALED: Remove person to fresh air and keep comfortable for breathing.
If skin irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Immediately call a POISON CENTER or a doctor.
IN CASE OF FIRE: Use for extinction: CO2, powder or water spray.
Wash contaminated clothing before reuse.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Dispose of contents and container in accordance with local, regional and national regulations.

Classification system

NFPA ratings (scale 0 - 4):

Health = 2
Fire = 3
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:

<table>
<thead>
<tr>
<th>Components</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-43-5 2-Aminoethanol</td>
<td>10-30%</td>
</tr>
<tr>
<td>64-17-5 Ethanol</td>
<td>10-30%</td>
</tr>
<tr>
<td>107-21-1 Ethylene Glycol</td>
<td>7-13%</td>
</tr>
<tr>
<td>68439-46-3 Alcohols C9-C11 Ethoxylated</td>
<td>1-5%</td>
</tr>
<tr>
<td>34398-01-1 Undecan-1-ol, ethoxylated</td>
<td>0.5-1.5%</td>
</tr>
<tr>
<td>8008-57-9 Orange oil</td>
<td>0.1-1.0%</td>
</tr>
</tbody>
</table>

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.
5 Firefighting measures

- **Suitable extinguishing media:**
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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:** See Section 9 for the flammability characteristics of this product.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
  Mount respiratory protective device.
  Wear recommended protective equipment(s). Keep unprotected persons away.
  Protective gloves (See Protection of Hands)
  Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from organic vapors.
- **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.
- **Methods and material for containment and cleaning up:**
  Surround and absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Use neutralizing agent (eg. food vinegar (5% acetic acid), citric acid, sodium bicarbonate in excess)
  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:**
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.
  Keep respiratory protective device available.
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **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

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-43-5 2-Aminoethanol</td>
</tr>
<tr>
<td>EL Short-term value: 6 ppm</td>
</tr>
<tr>
<td>Long-term value: 3 ppm</td>
</tr>
<tr>
<td>EV Short-term value: 15 mg/m³, 6 ppm</td>
</tr>
<tr>
<td>Long-term value: 7.5 mg/m³, 3 ppm</td>
</tr>
<tr>
<td>64-17-5 Ethanol</td>
</tr>
<tr>
<td>EL Short-term value: 1000 ppm</td>
</tr>
<tr>
<td>EV Long-term value: 1.900 mg/m³, 1.000 ppm</td>
</tr>
<tr>
<td>107-21-1 Ethylene Glycol</td>
</tr>
<tr>
<td>EL Short-term value: 20** mg/m³</td>
</tr>
<tr>
<td>Long-term value: 10** mg/m³</td>
</tr>
<tr>
<td>Ceiling limit value: 100* mg/m³, 50*** ppm</td>
</tr>
<tr>
<td>*Aerosol; **Particulate; ***Vapour</td>
</tr>
<tr>
<td>EV Ceiling limit value: 100 mg/m³</td>
</tr>
</tbody>
</table>

- **Undiluted Product**
- **Personal protective equipment:**
  - Respiratory protective equipment (If applicable, see breathing equipment for more details)
  - Safety glasses (See Eye protection)
  - Alkaline resistant gloves

- **General protective and hygienic measures:**
  Avoid contact with the eyes and skin.
  The usual precautionary measures for handling chemicals should be followed.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Do not carry product impregnated cleaning cloths in trouser pockets.

- **Breathing equipment:**
  In case of brief exposure or low pollution use respiratory filter device.
  In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
  Use suitable respiratory protective device when high concentrations are present.
  If room is well-ventilated, a respirator is not needed under normal and intended conditions of product use.

- **Protection of hands:**
  Protective Gloves
  Alkaline resistant gloves
  The glove material has to be impermeable and resistant to the product.
  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
44.3.6

Wear splash-proof chemical goggles in an industrial environment.

· **Body protection:**
  Protective clothing is recommended only under exceptional circumstances such as fire or spill of concentrated product.
  Alkaline resistant protective clothing (recommended)

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Colorless to slight yellow</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Agrume/orange.</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH-Value</strong></td>
<td>10.5 - 11.5 (25 °C)</td>
</tr>
<tr>
<td><strong>Melting point/Melting range</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range</strong></td>
<td>Undetermined.</td>
</tr>
<tr>
<td><strong>Fusion temperature / range</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Auto igniting</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion</strong></td>
<td>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>Lower</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>Upper</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>0.975 - 0.995 (25 °C)</td>
</tr>
<tr>
<td><strong>Vapour density (air=1)</strong></td>
<td>&lt;1 (aqueous solution)</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water</strong></td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solvent content</strong></td>
<td>N/D</td>
</tr>
<tr>
<td><strong>VOC content</strong></td>
<td>N/D</td>
</tr>
</tbody>
</table>

### 10 Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reactivity</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Chemical stability</strong></td>
<td>The product is stable.</td>
</tr>
<tr>
<td><strong>Thermal decomposition / conditions to be avoided</strong></td>
<td>No decomposition if used according to specifications.</td>
</tr>
<tr>
<td><strong>Possibility of hazardous reactions:</strong></td>
<td>Flammable.</td>
</tr>
<tr>
<td></td>
<td>Reacts with acids.</td>
</tr>
<tr>
<td><strong>Conditions to avoid</strong></td>
<td>Avoid freezing and extreme heat conditions.</td>
</tr>
<tr>
<td><strong>Incompatible materials</strong></td>
<td>This product can react with strong oxidizing agents and strong acids.</td>
</tr>
</tbody>
</table>
11 Toxicological information

- Hazardous decomposition products:
  Carbon monoxide (CO) and carbon dioxide (CO₂)
  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:

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value (Species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean of exposure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE (Acute Toxicity Estimates)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>6405 mg/kg (Rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>3424 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50 (4 h)</td>
<td>39.6 mg/L</td>
</tr>
</tbody>
</table>

141-43-5 2-Aminoethanol

| Oral                        | LD50            | 2050 mg/kg (Rat)                              |
| Dermal                      | LD50            | 1000 mg/kg (Rabbit)                           |
| Irritation of skin          | OECD guideline 404 | not classified (Rabbit)                     |
| Irritation of eyes          | OECD, guideline 405 | cat. 1B (Rabbit)                           |
| Sensitization               | OECD, guideline 406 | not classified (guinea pig)                   |

64-17-5 Ethanol

| Oral                        | LD50            | 7060 mg/kg (Rat)                              |
| Inhalative                  | LC50 (4 h)      | 20000 mg/L (Rat)                             |

107-21-1 Ethylene Glycol

| Oral                        | LD50            | 5840 mg/kg (Rat)                              |
| Dermal                      | LD50            | 9530 mg/kg (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)                   |

34398-01-1 Undecan-1-ol, ethoxylated

| Oral                        | LD50            | 1400 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)                           |

8008-57-9 Orange oil

| Oral                        | LD50            | 4750 mg/kg (Rat)                              |
| LC50                        | 6100 mg/L (Mouse) |

- Symptoms 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. Strong irritant with the danger of severe eye injury.
  - After ingestion: May cause irritation of the gastrointestinal tract, nausea, vomiting and headache.
Product name: EP83 FLOOR STRIPPER

- **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 result of degreasing.

**Carcinogenic categories:**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Code</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC (International Agency for Research on Cancer)</td>
<td>64-17-5 Ethanol</td>
<td>1</td>
</tr>
<tr>
<td>NTP (National Toxicology Program)</td>
<td>None of the ingredients is listed.</td>
<td></td>
</tr>
</tbody>
</table>

### 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 packaging recommendation:**
  Do not re-use empty containers.
  Dispose of packaging according to regulations on the disposal of packaging.
- **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 UN2924
- **UN proper shipping name**
  DOT+TDG Flammable liquid, corrosive, n.o.s. (Ethanolamine, Ethanol)
  IMDG FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOLAMINE, ETHANOL (ETHYL ALCOHOL)), MARINE POLLUTANT
  IATA FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOLAMINE, ETHANOL)
- **Transport hazard class(es)**
  DOT, IMDG, IATA Class 3 Flammable liquids
  DOT, IMDG, IATA 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%)
  64-17-5 Ethanol

- Canadian Ingredient Disclosure list (limit 1%)
  141-43-5 2-Aminoethanol
  107-21-1 Ethylene Glycol

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
  P: Marine Pollutant
  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)
  VOC: Volatile Organic Compounds (USA, EU)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent