1 Identification

· Product identifier
  · Trade name: **EP67 Ready to use Heavy Duty Industrial Degreaser**
  · Article number: 2097210001
  · Recommended use Industrial Degreaser.
  · Restrictions on use
    All other uses than those indicated on the product label and technical data sheet.

· Details of the supplier of the safety data sheet
  · Manufacturer: Avmor Ltd.
    950, Michelin
    Laval, QC,
    Canada
    H7L 5C1
    1-800-387-8074
    www.avmor.com
    info@avmor.com
  · Client Identification Number 119100
  · Emergency telephone number: CANUTEC 1-613-996-6666

2 Hazard(s) identification

· Classification of the product:
  ![GHS07](image)

  Eye Irrit. 2A  H319  Causes serious eye irritation.

· Label elements

  · Hazard pictograms:
    ![GHS07](image)

  · Signal word: Warning
  · Hazard statements:
    H319 Causes serious eye irritation.
  · Precautionary statements
    P280  Wear eye or face protection equipment.
    P264  Wash thoroughly after handling.
    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 attention.

(Contd. on page 2)
Trade name: **EP67 Ready to use Heavy Duty Industrial Degreaser**

· **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.

### 3 Composition/information on ingredients

- **Dangerous components:**
<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>68991-48-0</td>
<td>Alcohols, C7-21, ethoxylated</td>
</tr>
<tr>
<td>(1-2.5%)</td>
<td></td>
</tr>
</tbody>
</table>

### 4 First-aid measures

- **General information:**
  - **After inhalation:** Rarely cause discomfort; supply fresh air and consult doctor in case of complaints.
  - **After skin contact:** May induce a skin irritation.
  - **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 Fire-fighting 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**
  In case of accidental fire and extreme heat conditions, the following gaseous products can be released after water evaporation: hydrocarbons, carbon monoxides and dioxides (COx) and nitrogen dioxide (NOx).
- **Advice for firefighters**
  - Special protective equipment and precautions for fire-fighters No special measures required.
- **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.
Trade name: **EP67 Ready to use Heavy Duty Industrial Degreaser**

- **Environmental precautions:**
  - Dilute with plenty of water.
  - Do not allow to enter sewers, surface or ground 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.

7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**
    - Ensure good ventilation at the workplace.
    - Prevent formation of aerosols.
  - **Conditions for safe storage, including any incompatibilities**
    - **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 the original receptacle tightly sealed.
  - **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Appropriate enginering controls** Ensure appropriate aeration and ventilation.

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

- **Exposure controls**
  - **Personal protective equipment:**
    - Tightly sealed goggles
    - Protective gloves

- **General protective and hygienic measures:**
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Keep away from foodstuffs, beverages and feed.
  - Avoid contact with the eyes.
  - **Breathing equipment:** Not required.
  - **Protection of hands:** Protective gloves

(Contd. on page 4)
Trade name: **EP67 Ready to use Heavy Duty Industrial Degreaser**  

- **Eye protection**: Tightly sealed goggles  
- **Body protection**: No special measures required.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>General Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
<td>Fluid</td>
</tr>
<tr>
<td><strong>Form:</strong></td>
<td>Fluid</td>
</tr>
<tr>
<td><strong>Colour:</strong></td>
<td>Colorless.</td>
</tr>
<tr>
<td><strong>Odour:</strong></td>
<td>Odourless.</td>
</tr>
<tr>
<td><strong>Odour threshold:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>pH-value at 25 °C:</strong></td>
<td>9.0-11.0</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Melting point/Melting range:</strong></td>
<td>Undetermined.</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range:</strong></td>
<td>100 °C</td>
</tr>
<tr>
<td><strong>Flash point:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous):</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Ignition temperature:</strong></td>
<td>Not determined.</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 does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lower:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Upper:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapour pressure at 20 °C:</strong></td>
<td>23 hPa</td>
</tr>
<tr>
<td><strong>Density at 25 °C:</strong></td>
<td>1.000-1.010 g/cm³</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not determined.</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</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Water:</strong></td>
<td>Fully miscible.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dynamic:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solvent content:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Organic solvents:</strong></td>
<td>0.0 %</td>
</tr>
</tbody>
</table>

(Contd. on page 5)
10 Stability and reactivity

- Reactivity: The product is basic.
- Chemical stability
  - 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: This product may react with strong oxidizing agents.
- Hazardous decomposition products: 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: Skin and eyes contact
  - Acute toxicity:
    - Numerical measures of toxicity
      - Components
        - Type
        - Value (Species)
        - Mean of exposure
          
          | Type | Value (Species) |
          |------|-----------------|
          | Oral LD50 | 1366065 mg/kg (rat) |
          | Dermal LD50 | 144991 mg/kg |
          | Inhalative LC50 (4h) | 9149 mg/L (rat) |

- Symptoms related to the physical, chemical and toxicological characteristics
  - by inhalation: Vapours may cause irritation to the airways. Inhalation of larger amounts may induce discomfort, nausea, dizziness, headache, narcosis, and unconsciousness.
  - If on the skin: May cause irritation by prolonged contact with skin.
  - 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 result 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.
Trade name: **EP67 Ready to use Heavy Duty Industrial Degreaser**

12 Ecological information
- **Persistence and degradability**
  Organic compounds of this product are readily biodegradable according to the OECD Guideline 301.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** Does not accumulate in organisms
  - **Mobility in soil** No further relevant information available.
- **Ecotoxicity** No relevant information available
- **General notes:** Not known to be hazardous to water.

13 Disposal considerations
- **Waste treatment methods**
  - **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system unless significantly diluted or neutralized.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agent:** Water.

14 Transport information
- **DOT, IMDG, IATA**
  Not regulated.
- **UN proper shipping name**
  - **DOT**
    Not regulated.
- **Transport hazard class(es)**
  - **Class**
    Not regulated.
- **Packing group**
  - **DOT**
    Not regulated.
- **Environmental hazards:**
  - **Marine pollutant:** No
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  Not applicable.

15 Regulatory information
- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Chemicals known to cause cancer:**
    None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for females:**
    None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for males:**
    None of the ingredients is listed.
<table>
<thead>
<tr>
<th><strong>Trade name:</strong></th>
<th>EP67 Ready to use Heavy Duty Industrial Degreaser</th>
</tr>
</thead>
</table>

- **Chemicals known to cause developmental toxicity:**
  None of the ingredients is listed.

- **EPA (Environmental Protection Agency)**
  None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**
  None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  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.**

- **Date of creation/last revision:** 05/21/2015

- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - 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
  - Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A