

Safety Data Sheet
*acc. to SOR/2015-17 and OSHA 29 CFR Parts 1910, 1915,
 1926*

1 Identification

· **Product identifier**

· Trade name: **EP83 FLOOR STRIPPER**

· **Article number:** 2242278001, 2242334001

· **Recommended use** Floor stripper

· **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

· **Client Identification Number** 119100

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

2 Hazard(s) identification

· **Classification of the product:**



GHS02

Flam. Liq. 3 H226 FLAMMABLE LIQUID AND VAPOR.



GHS08

STOT RE 2 H373 MAY CAUSE DAMAGE TO the kidneys THROUGH PROLONGED OR REPEATED EXPOSURE. ROUTE OF EXPOSURE: ORAL.



GHS05

Skin Corr. 1A H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

Eye Dam. 1 H318 CAUSES SERIOUS EYE DAMAGE.



GHS07

Skin Sens. 1 H317 MAY CAUSE AN ALLERGIC SKIN REACTION.

STOT SE 3 H335-H336 MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.

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· **Label elements**

· **Hazard pictograms:**



GHS02 GHS05 GHS07 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

2-Aminoethanol
Ethylene Glycol
Ethanol
Alcohols C9-C11 Ethoxylated

· **Hazard statements:**

H226 FLAMMABLE LIQUID AND VAPOR.
H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H317 MAY CAUSE AN ALLERGIC SKIN REACTION.
H335-H336 MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.
H373 MAY CAUSE DAMAGE TO the kidneys THROUGH PROLONGED OR REPEATED EXPOSURE. ROUTE OF EXPOSURE: ORAL.

· **Precautionary statements**

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P260 Do not breathe mist, vapours and spray.
P280 Wear protective gloves and eye or face protection.
P240 Ground or bond container and receiving equipment.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P303+P361+P353 IF ON SKIN OR HAIR: Remove or take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P333+P313 IF SKIN IRRITATION OR RASH OCCURS: Get medical attention.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER or a doctor.
P370+P378 IN CASE OF FIRE: Use for extinction: CO₂, powder or water spray.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Keep cool.
P501 Dispose of contents and container in accordance with local, regional and national regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 3
Reactivity = 0

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- **Hazard not otherwise classified** None
- **Notes:** For the wording of the listed abbreviations refer to section 16.

3 Composition/information on ingredients

· **Dangerous components:**

C A S (% w/w)	C o m p o n e n t	C o n c e n t r a t i o n
141-43-5	2-Aminoethanol	25-50%
64-17-5	Ethanol	10-<25%
107-21-1	Ethylene Glycol	10-<25%
68439-46-3	Alcohols C9-C11 Ethoxylated	1-≤2.5%
34398-01-1	Undecan-1-ol, ethoxylated	1-≤2.5%
8008-57-9	Orange oil	0.3-<1%

4 First-aid measures

· **General information:**

Immediately remove any clothing soiled by the product. Wash contaminated clothing before reuse. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Caustic products usually don't generate instantaneous painful burns in contact with eyes or skin. In case of direct contact with this product, react immediately by following the measures below.

· **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. Remove contact lenses, if present and easy to do so. Continue rinsing for a minimum of 15 to 60 minutes. Then consult a doctor.

· **After ingestion:**

Drink copious amounts of water and provide fresh air. Immediately call a doctor. Do not induce vomiting.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

Contact can cause pain, redness, burns, and even blistering. Burns may not be immediately painful; onset of pain may be delayed minutes to hours. Permanent damage including blindness can result after prolonged contact with eyes.

5 Fire-fighting measures

· **Suitable extinguishing media**

· **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

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- **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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 Wear recommended protective equipment(s). Keep unprotected persons away.
- **Environmental precautions:**
 Inform respective authorities in case of seepage into water course or sewage system.
 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).
 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.
 Do not flush with water or aqueous cleansing agents

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 in the original receptacle tightly sealed.
 Protect from heat and direct sunlight.
 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

- **Appropriate engineering controls** Ensure appropriate aeration and ventilation.
- **Control parameters**

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

141-43-5 2-Aminoethanol

EL (Canada)	Short-term value: 6 ppm Long-term value: 3 ppm
EV (Canada)	Short-term value: 15 mg/m ³ , 6 ppm Long-term value: 7.5 mg/m ³ , 3 ppm

64-17-5 Ethanol

EL (Canada)	Short-term value: 1000 ppm
EV (Canada)	Long-term value: 1.900 mg/m ³ , 1.000 ppm

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107-21-1 Ethylene Glycol

EL (Canada)	Short-term value: 20** mg/m ³ Long-term value: 10** mg/m ³ Ceiling limit value: 100* mg/m ³ , 50*** ppm *Aerosol; **Particulate; ***Vapour
EV (Canada)	Ceiling limit value: 100 mg/m ³

· **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:**

- Avoid contact with the eyes and skin.
- Do not breathe dust, fume, gas, mist, vapors or spray.
- 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 breathing dust, fume, gas, mist, vapors or spray.

- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves
- **Eye protection:** Tightly sealed goggles
- **Body protection:** No special measures required.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Liquid
- **Colour:** Colorless to slight yellow
- **Odour:** Agrume/orange.
- **Odour threshold:** Not determined.

· **pH-value at 25 °C:** 11.5-12.5

· **Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 78 °C

· **Flash point:** 27 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 385 °C

· **Decomposition temperature:** Not determined.

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· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
· Lower:	3.2 Vol %
· Upper:	53.0 Vol %
· Vapour pressure at 20 °C:	59 hPa
· Density at 25 °C:	0.975-0.995 g/cm ³
· Relative density	Not determined.
· Vapour density (air=1)	<1 (aqueous solution)
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Solvent content:	
· Organic solvents:	52.0 %

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**
Flammable.
Reacts with acids.
- **Conditions to avoid** Avoid freezing and extreme heat conditions.
- **Incompatible materials:** This product can react with strong oxidizing agents and strong acids.
- **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** Skin and eyes contact
- **Acute toxicity:**
 - **Numerical mesures of toxicity**

· Components	Type	Value (Species)
Mean of exposure		
ATE (Acute Toxicity Estimates)		
Oral	LD50	5700 mg/kg
Dermal	LD50	3424 mg/kg (rabbit)
Inhalative	LC50 (4 h)	39.6 mg/L

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141-43-5 2-Aminoethanol

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

8008-57-9 Orange oil

Oral	LD50	4400 mg/kg (rat)
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· **Symptomes related to the physical, chemical and toxiological 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:** 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.

· **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:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

64-17-5	Ethanol	1
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

141-43-5 2-Aminoethanol

EC50 (48 h, OECD guideline 202)	65 mg/L (daphnia magna [water flea])
EC50 (72 h, OECD guideline 201)	2.5 mg/L (Pseudokirchnerella subcapitata)
NOEC (21 d, OECD guideline 202)	0.85 mg/L (daphnia magna [water flea])

· **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

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- **Mobility in soil** No further relevant information available.
- **Ecotoxicity** No relevant information available
- **Remark:** Harmful to fish
- **General notes:**
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 Harmful to aquatic organisms
 Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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	UN2920
· UN proper shipping name · DOT	Corrosive liquids, flammable, n.o.s. (Ethanolamine, Ethanol)
· Transport hazard class(es) · Class	8 Corrosive substances
· Packing group · DOT	II
· Environmental hazards: · Marine pollutant:	Yes (P) Yes (DOT) Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code · Remarks:	Not applicable. Special marking with the symbol (fish and tree).

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.

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· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

64-17-5 Ethanol

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

64-17-5	Ethanol	A3
107-21-1	Ethylene Glycol	A4

· 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:** 07/04/2015

· **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
- P: Marine Pollutant
- 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
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
- STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
- STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2