Safety Data Sheet

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

1 Identification

· **Product identifier**

· **Trade name:** ***EP63 Lemon Neutral Neutral Cleaner***

· **Article number:** 2291278001, 2291257001, 2291334001
· **Recommended use** Neutral cleaner
· **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:**

GHS07

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-determining components of labeling:**
Alcohols C9-C11 Ethoxylated
Alcohols C12-15 Ethoxylated
Orange oil
5-Chloro-2-methyl-2H-isothiazol-3-one

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· **Hazard statements:**
H319 CAUSES SERIOUS EYE IRRITATION.
H317 MAY CAUSE AN ALLERGIC SKIN REACTION.
· **Precautionary statements**

P261	Avoid breathing dust, fume, gas, mist, vapors or spray.
P280	Wear protective gloves and eye or face protection.
P272	Contaminated work clothing must not be allowed out of the workplace.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN : Wash with plenty of water.
P333+P313	IF SKIN IRRITATION OR RASH OCCURS: Get medical attention.
P310	Immediately call a POISON CENTER or a doctor.
P363	Wash contaminated clothing before reuse.
P501	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
· **Notes:** For the wording of the listed abbreviations refer to section 16.

3 Composition/information on ingredients

· **Dangerous components:**

CAS (% w/w)	Component	
68439-46-3	Alcohols C9-C11 Ethoxylated	2.5-<3%
68131-39-5	Alcohols C12-15 Ethoxylated	1-≤2.5%
8008-57-9	Orange oil	0.1-<0.3%

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. 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:** If symptoms persist consult a doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.

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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.
· **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.
· **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).
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** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Appropriate engerering 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.

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· **Exposure controls**
· **Personal protective equipment:**

Tightly sealed goggles

· **General protective and hygienic measures:**
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid breathing dust, fume, gas, mist, vapors or spray.
· **Breathing equipment:** Not required.
· **Protection of hands:** Not required.
· **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:**	Yellow
· **Odour:**	Citrus.
· **Odour threshold:**	Not determined.
· **pH-value at 25 °C:**	7.5-8.5
· **Change in condition**	
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	100 °C
· **Flash point:**	Not determined.
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	
· **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 at 20 °C:**	23 hPa
· **Density at 25 °C:**	1.000-1.020 g/cm³
· **Relative density**	Not determined.

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· **Vapour density (air=1)**	Not determined.
· **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:**	0.2 %

10 Stability and reactivity

· **Reactivity** Not determined.
· **Chemical stability**
· **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:** 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 mesures of toxicity**

· **Components** Mean of exposure	**Type**	**Value (Species)**
ATE (Acute Toxicity Estimates)		
Oral	LD50	45374 mg/kg (rat)
Dermal	LD50	43478 mg/kg
68131-39-5 Alcohols C12-15 Ethoxylated		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
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)
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:** May cause irritation by prolonged contact with skin.
· **If on the eye:** 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:
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.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
68131-39-5 Alcohols C12-15 Ethoxylated	
EC50 (48 h, OECD guideline 202)	0.23 mg/L (daphnia magna [water flea])
EC50 (72 h, OECD guideline 201) (static)	0.75 mg/L (Pseudokirchnerella subcapitata)
LC50 (96 h, OECD guideline 203)	1.3-1.7 mg/L (oncorhynchus mykiss [rainbow trout])
NOEC (21 d, ASTM 1988)	0.77 mg/L (daphnia magna [water flea])
NOEC (30 d, OECD directive 204) (dynamic)	0.11-0.28 mg/L (pimephales promelas [fathead minnow])

· **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
· **Remark:** Harmful to fish
· **General notes:** Harmful to aquatic organisms

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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, ADN, 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:**	Yes (P)
· **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.

· **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.

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· **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:** 05/06/2015

· **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
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1