



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

1 Identification

- **Product identifier**
 - **Trade name:** ***BAN-O Liquid Deodorant***
 - **Article number:** 2000210001, 2000278001, 2000334001, 2000390001
 - **Recommended use:**
Deodorant in washrooms, garbage cans, lockers, changing rooms, refuse disposal bins.
 - **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.



GHS07

Eye Irrit. 2A H319 CAUSES SERIOUS EYE IRRITATION.

STOT SE 3 H336 MAY CAUSE DROWSINESS OR DIZZINESS.

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· **Label elements:**

· **Hazard pictograms:**



GHS02 GHS07

· **Signal word:** Warning

· **Hazard statements:**

H226 FLAMMABLE LIQUID AND VAPOR.
H319 CAUSES SERIOUS EYE IRRITATION.
H336 MAY CAUSE DROWSINESS OR DIZZINESS.

· **Precautionary statements:**

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P241 Use explosion-proof equipment.
P261 Avoid breathing dust, fume, gas, mist, vapors or spray.
P240 Ground or bond container and receiving equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves and eye or face protection.
P303+P361+P353 IF ON SKIN OR HAIR: Remove or take off immediately all contaminated clothing. Rinse skin with water.
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.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or a doctor if you feel unwell.
P370+P378 IN CASE OF FIRE: Use for extinction: CO₂, powder or water spray.
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.

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- **Classification system:**
- **NFPA ratings (scale 0 - 4):**



Health = 1
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:**

CAS	Component	(% w/w)
64-17-5	Ethanol Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	25-50%
34398-01-1	Undecan-1-ol, ethoxylated Acute Tox. 4, H302	0.1-≤2.5%

4 First-aid measures

- **General information:**
- **After inhalation:** Rarely cause discomfort; supply fresh air and consult doctor in case of complaints.
- **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.
- **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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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 (CO_x) and nitrogen oxides (NO_x).
- **Advice for firefighters:**
 - **Special protective equipment and precautions for fire-fighters:** No special measures required.
 - **Additional information:** See -Section 9- for the flammability characteristics of this product.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear recommended protective equipment(s). Keep unprotected persons away.
- **Environmental precautions:** 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).
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.
- **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:** Store away from oxidizing agents.
 - **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.

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- **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:**

64-17-5 Ethanol

EL (Canada)	Short-term value: 1000 ppm
EV (Canada)	Long-term value: 1,900 mg/m ³ , 1,000 ppm

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

- **Exposure controls:**
- **Personal protective equipment:**



Safety goggles



Respiratory protective equipment (recommended if ventilation is insufficient)



Protective gloves

- **General protective and hygienic measures:**

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.
Avoid contact with the eyes and skin.
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.
Not necessary if room is well-ventilated.

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- **Protection of hands:**
Protective gloves.
Check protective gloves prior to each use for their proper condition.
- **Eye protection:** Safety goggles.
- **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

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

· **General Information:**

· **Appearance:**

· **Form:**

Clear to slightly hazy liquid

· **Colour:**

Colourless to yellowish

· **Odour:**

Perfumed.

· **Odor threshold:**

Not determined.

· **pH-value at 25 °C:**

6.5-8.0

· **Change in condition:**

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

78 °C

· **Flash point:**

23 °C

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

425 °C

· **Decomposition temperature:**

Not determined.

· **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:**

3.5 Vol %

· **Upper:**

15.0 Vol %

· **Vapour pressure at 20 °C:**

59 hPa

Not determined.

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· Density at 25 °C:	0.910-0,920 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:	49.9 %

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:** Flammable.
- **Conditions to avoid:** Avoid freezing and extreme heat conditions.
- **Incompatible materials:** This product may react with strong oxidizing agents.
- **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

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- **Acute toxicity:**
- **Numerical mesures of toxicity:**

· Components Mean of exposure		Type	Value (Species)
ATE (Acute Toxicity Estimates)			
Oral	LD50		135922 mg/kg (Rat)
Dermal	LD50		194175 mg/kg (Rabbit)
Inhalative	LC50 (4 h)		314 mg/L

64-17-5 Ethanol

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

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)

- **Symptomes related to the physical, chemical and toxiological characteristics:**
 - **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 results of degreasing.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Harmful
 Irritant

- **Carcinogenic categories:**

· IARC (International Agency for Research on Cancer)	
64-17-5	Ethanol

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

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

LC50 (96 h, OECD guideline 203)	1-10 mg/L (pimephales promelas [fathead minnow])
EC50 (48 h, OECD guideline 202)	1-10 mg/L (daphnia magna [water flea])
NOEC (21 d, OECD guideline 202)	>1 mg/L (daphnia magna [water flea]) (QSAR [Boeiji et al. 2006. Eco Env. Saf.,64,75-84])

· **Behavior in environmental systems:**

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Ecotoxicity:** No relevant information available

· **General notes:**

Germany: Water hazard class 3 (Self-assessment): extremely hazardous for water.

Germany: Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Germany: Danger to drinking water if even extremely small quantities leak into the ground.

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**

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· UN proper shipping name · DOT	Ethanol
· Transport hazard class(es) · Class	3 Flammable liquids
· Packing group · DOT	III
· Environmental hazards:	Not applicable.
· 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:	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
· 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.

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• **Date of creation/last revision:** 05/25/2015

• **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

NIOSH: National Institute for Occupational Safety

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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