

1 Identification

- **Product name:** **BAN-O Liquid Deodorant**
- **Article number:** 2000210001, 2000278001, 2000334001, 2000390001, 2000167001
- **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
- **Uses advised against** 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.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**
- **Hazard pictograms:**



GHS02 GHS07

- **Signal word:** Warning
- **Hazard statements:**
Flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.
- **Precautionary statements:**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof [electrical/ventilating/lighting] equipment.
Use non-sparking tools.
Take actions to prevent static discharges.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.

Product name: BAN-O Liquid Deodorant

(Contd. of page 1)

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or a doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

IN CASE OF FIRE: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents and container in accordance with local, regional and national regulations.

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

Health = 1

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:· **Components:**

64-17-5	Ethanol	30-60%
	perfume	1-5%
34398-01-1	Undecan-1-ol, ethoxylated	0.5-1.5%

· **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:** Rarely cause discomfort; supply fresh air and consult physician 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.· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.**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:** No further relevant information available.

(Contd. on page 3)

Product name: BAN-O Liquid Deodorant

(Contd. of page 2)

- **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:**
Wear recommended protective equipment(s). Keep unprotected persons away.
Not required.
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:** No special measures required.
- **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.
- **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.
- **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

- **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

- **Undiluted Product**
- **Personal protective equipment:**



Respiratory protective equipment (If applicable, see breathing equipment for more details)

(Contd. on page 4)

Product name: BAN-O Liquid Deodorant

(Contd. of page 3)



Protective gloves (See Protection of Hands)



Safety goggles (see Eye protection)

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

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

Wear splash-proof chemical goggles in an industrial environment.

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

· Form:	Clear to slightly hazy liquid
· Colour:	Colourless to yellowish
· Odour:	Perfumed.
· Odor threshold:	Not determined
· pH-Value:	6.5 - 8.0 (25 °C)
· Melting point/Melting range:	Not determined
· Boiling point/Boiling range:	N/D
· Fusion temperature / range:	Not determined
· Flash point:	23 °C
· Flammability (solid, gaseous):	Not applicable
· Ignition temperature:	N/D
· 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:	N/D

(Contd. on page 5)

Product name: BAN-O Liquid Deodorant

(Contd. of page 4)

Upper:	N/D
· Vapour pressure:	N/D
· Relative density:	0.905 – 0.920 (25 °C)
· Vapour density (air=1):	<1 (aqueous solution)
· Evaporation rate:	Not determined
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined
· Solvent content:	
VOC content:	N/D

10 Stability and reactivity

- **Reactivity:** Not determined.
- **Chemical stability:** The product is stable.
- **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:** No further relevant information available.
- **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:**

Components	Type	Value (Species)
Mean of exposure		
ATE (Acute Toxicity Estimate)		
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)

- **Symptoms related to the physical, chemical and toxicological 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.

(Contd. on page 6)

Product name: BAN-O Liquid Deodorant

(Contd. of page 5)

- **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.

- **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

- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** Not determined
- **Ecotoxicity:** No relevant information available.
- **Remark:** See section 13- Disposal considérations.
- **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 packagings recommendation:**
Do not re-use empty containers.
Dispose of packaging according to regulations on the disposal of packagings.
- **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** UN1170
- **UN proper shipping name**
- **DOT+TDG** Ethanol
- **IMDG** ETHANOL (ETHYL ALCOHOL)
- **IATA** ETHANOL
- **Transport hazard class(es)**
- **DOT+TDG**
- **Class** 3 Flammable liquids
- **Label** 3
- **IMDG, IATA**
- **Class** 3 Flammable liquids
- **Packing group**
- **DOT, IMDG, IATA** III
- **Special precautions for user** Not applicable.
Warning: Flammable liquids

(Contd. on page 7)

Product name: BAN-O Liquid Deodorant

(Contd. of page 6)

- **Danger code (Kemler):** 30
- **EMS Number:** F-E,S-D
- **UN "Model Regulation":** UN 1170 ETHANOL, 3, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Canadian substance listings**

· Canadian Domestic Substances List (DSL)	
64-17-5	Ethanol
34398-01-1	Undecan-1-ol, ethoxylated
3734-33-6	denatonium benzoate
7732-18-5	water, distilled, conductivity or of similar purity
· Canadian Ingredient Disclosure list (limit 0.1%)	
64-17-5	Ethanol
· Canadian Ingredient Disclosure list (limit 1%)	
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. 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