

AVMOR plc. (NEW)
P. O. BOX 234
NORTHAMPTON, ENGLAND NN3 2LY

Section I. Chemical Product and Company Identification

Product Name/Trade Name	BAN-O LIQUID DEODORANT	Code	1253
Chemical Family	Aliphatic alcohol or glycol. (Solvent.)	In case of Emergency	0976 402998 (01604 472300)
Manufacturer	Avmor Ltd 950 Michelin, Laval, Québec Canada	Material Uses	Liquid deodorant.

Section II. Composition and Information on Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC50/LD50
Ethanol2	64-17-5	30-60	Not available.	Not available.
Isopropyl alcohol	67-63-0	10-30	Not available.	Not available.
Methyl alcohol	67-56-1	5-10	Not available.	Not available.
Nonyl phenol ethoxylate {4 E.O.}	9016-45-9	1-5	Not available.	Not available.

Section III. Hazards Identification

Potential Acute Health Effects	Extremely dangerous in case of ingestion. Dangerous in case of skin contact (irritant, sensitizer, permeator), of eye contact (irritant).
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. The substance is toxic to the reproductive system.

Section IV. First Aid Measures

Eye contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation persists, get medical attention.
Skin contact	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.
Hazardous Skin Contact	No additional information.
Inhalation	Allow the victim to rest in a well ventilated area. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. NEVER give an unconscious person anything to ingest. SEEK IMMEDIATE MEDICAL ATTENTION.
Hazardous Ingestion	DO NOT induce vomiting. Loosen tight clothing. If the victim is not breathing, perform mouth-to-mouth resuscitation. SEEK IMMEDIATE MEDICAL ATTENTION. Have conscious person drink several glasses of water or milk.

Section V. Fire and Explosion Data

Flammability of the Product	Flammable.
Auto-Ignition Temperature	398.89°C (750°F) (Isopropyl alcohol).
Flash Points	Closed cup: 22°C (71.6°F).
Flammable Limits	LOWER: 2% UPPER: 12%
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks. Slightly flammable in presence of heat, of oxidizing materials and of combustible materials.
Explosion Hazards	No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemicals, CO2, alcohol foam or water spray. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Section VI. Accidental Release Measures

Small Spill	Eliminate all sources of ignition and ventilate the area. Absorb with an inert material and place in an appropriate waste disposal container. Finish cleaning the spill area with running water. Dispose of in accordance with federal, provincial, or local regulations.
Large Spill	Flammable liquid. Keep away from heat, from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition.

Section VII. Handling and Storage**Precautions**

S1/2- Keep locked up and out of the reach of children. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. In case of insufficient ventilation, wear suitable respiratory equipment. S62- If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. S3/7- Keep container tightly closed in a cool place.

Storage

Keep away from heat, from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

Section VIII. Exposure Controls/Personal Protection**Gloves**

Gloves (impervious).

Respiratory

Wear appropriate respirator when ventilation is inadequate.

Eyes

Safety glasses.

Other

Full suit, apron, face shield, boots: are recommended under exceptional circumstances such as fire, spill, or for prolonged contact with bulk quantities.

Exposure Limits

Isopropyl alcohol TWA: 400 (ppm) from ACGIH [1993] Methanol TWA: 200 CEIL: 250 (ppm) TWA: 260 CEIL: 310 (mg/m3) Ethanol TWA: 1000 (ppm) from ACGIH (ppm)

Section IX. Physical and Chemical Properties**Physical state and appearance**

Liquid.

Odor

Lime.

Boiling point

82°C (179.6°F)

Taste

Not available.

Melting Point

-30°C (-22°F)

Color

Slightly turbid to colorless.

Critical Temperature

The lowest known value is 243.1°C (469.6°F) (Ethanol).

Molecular Weight

Not applicable.

Volatility

99% (v/v).

pH (in Water)

7.2 [Neutral.]

Evaporation Rate

Not available.

pH (concentrate)

Not available.

Vapor Pressure

Weighted average: 31.89 mm of Hg (@ 20°C)

Vapor density

Weighted average: 1.4 (Air = 1)

Inocity (in Water)

Non-ionic.

Specific Gravity

0.890-0.910 (Water = 1)

Dispersion Properties

Very slightly dispersed in n-octanol. Is not dispersed in methanol, diethyl ether. See solubility in water, methanol, diethyl ether.

Viscosity

Not available.

Solubility

Easily soluble in cold water, hot water, methanol, diethyl ether. Partially soluble in n-octanol.

Odor Threshold

5 ppm

Section X. Stability and Reactive Data**Stability**

The product is stable.

Instability Temperature

Not available.

Conditions of Instability

Store and use away from heat, sparks, open flame, or any other ignition source.

Incompatibility with Various Substances

Reactive with oxidizing agents, acids.

Corrosivity

Non-corrosive in presence of glass, of aluminum, of zinc, of copper, of stainless steel(304), of stainless steel(316).

Section XI. Toxicological Information**Routes of Entry**

Ingestion. Skin contact. Inhalation. Eye contact.

Toxicity to Animals

Acute oral toxicity (LD50): 6200 mg/kg (Rat) (Calculated value for the mixture). Acute toxicity of the gas (LC50): > 5000 ppm (Rat) (Isopropyl alcohol). Acute toxicity of the vapor (LC50): > 5000 ppm (Rat) (Ethanol).

Chronic Effects on Humans

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. The substance is toxic to the reproductive system.

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Section XII. Ecological Information**Ecotoxicity**

Moderate.

BOD5 and COD

All constituents are biodegradable.

Products of Biodegradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation

The products of degradation are less toxic than the product itself.

Section XIII. Disposal Considerations**Waste Disposal**

Dispose of material according to regional, provincial and federal regulations. Consult your local or regional authorities.

Section XIV. Transport Information**ADR Classification**

ADR CLASS: 3.2. Flammable liquid

UN/NA

1170

Packing Group

II

Special Provisions for

No additional remark.

Transport

Section XV. Other Regulatory Information**DSCL (Classification)**

R10- Flammable. R28- Very toxic if swallowed. R36/38- Irritating to eyes and skin.

Section XVI. Other Information**References**

Validated by the Regulatory Affaires Department on 06/06/03

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