

Section I. Product Identification and Uses

		HMIS (HFRP)	
		Health Hazard	3
		Fire Hazard	3
		Reactivity	0
		Personal Protection	b
Common / Trade name	BAN-O Liquid Deodorant	TDG	CLASS 3
WHMIS	B2, D1B, D2B	PIN	UN1170 ETHANOL SOLUTION
Code	2000	PG	III
Material uses	Liquid deodorant.		

Section II. Hazardous Ingredients

Name	CAS #	% by weight	TLV/PEL	LC50/LD50
Ethanol	64-17-5	15 - 40	Not available.	ORAL (LD50): Acute: 7060 mg/kg [Rat].
Isopropyl alcohol	67-63-0	10 - 30	Not available.	ORAL (LD50): Acute: 3600 mg/kg [Mouse]. > 4720 mg/kg [Rat].
Methanol	67-56-1	3 - 7	ACGIH (Canada). TWA: 200 mg/m ³ STEL: 250 mg/m ³ CEIL: 200 mg/m ³	ORAL (LD50): Acute: 5628 mg/kg [Rat]. 7300 mg/kg [Mouse]. DERMAL (LD50): Acute: 15800 mg/kg [Rabbit]. VAPOR (LC50): Acute: 64000 ppm 4 hour(s) [Rat].
Alcohol C11 ethoxylate	34398-01-1	1 - 5	Not available.	Not available.

Section III. 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. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.
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.
Ingestion	If ingested do not induce vomiting. Have conscious person drink several glasses of water. Get medical attention immediately.

Section IV. Physical Data

Physical state and appearance	Liquid.	Colour	Slightly turbid to colorless.
pH (1% soln/water)	Not available	Odour	Floral.
pH (concentrate)	Not applicable	Volatility	Not available.
Boiling point	The lowest known value is 65°C (149°F) (Methyl Alcohol). Weighted average: 88.06°C (190.5°F)	Vapour density	Weighted average: 1.4 (Air = 1)
Specific gravity	0.9-0.91 (Water = 1)	Vapour pressure	The highest known value is 12.9 kPa (97 mm Hg) (at 20°C) (Methyl Alcohol). Weighted average: 4.31 kPa (32.33 mm Hg) (at 20°C)
Solubility	Easily soluble in cold water, hot water.		

Section V. Fire and Explosion Data

The product is	Flammable.
Auto-ignition temperature	The lowest known value is 385°C (725°F) (Methyl Alcohol).
Flash points	Closed cup: 24°C (75.2°F).
Degradation products	These products are carbon oxides (CO, CO2).
Extinguishing media	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. Reactivity data

Stability	The product is stable.
Decomp. products	Carbon oxides (CO, CO2).
Reactivity	Reactive with oxidizing agents, acids.

Section VII. Toxicological properties

Route of entry Ingestion. Skin contact. Inhalation. Eye contact.

Toxicity for 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).

Acute effects Aspiration hazard if swallowed. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. This product is a eye irritant. This product may irritate skin upon contact.

Chronic effects No ingredient in this product is currently listed as carcinogens by IARC, NTP or OSHA. The substance (ethanol) is toxic to the reproductive system.

Section VIII. Preventive measure

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

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).

Precautions Keep away from heat, from sources of ignition. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Avoid contact with skin and eyes. Keep out of reach of children. Keep away from incompatibles.

Spill and leak 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.

Section IX. Personal protective equipment

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 or spill..

Eng. 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 X. Preparation and other Information

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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Annex A. Legend

HMIS Hazardous Materials Identification System

WHMIS WHMIS Workplace Hazardous Materials Information System

TDG Transport Dangerous Goods

PIN Product Identification Number

PG Packaging Group
