



Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario, L9T 3Y5
Canada
905-878-4990

PRODUCT: PBC 8201-1 Hand Sanitizer (IPA)

SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario L9T3Y5
Tel (905) 878-4990 Fax (905) 878-1189

Product identifier..... PBC 8201-1 Hand Sanitizer (IPA)

Recommended use and restrictions on .. Hand sanitizer.
use

Chemical family..... Isopropyl alcohol. Mixture.

NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.

HMIS..... H: 2* F: 4 R: 0.

24 hour emergency number..... For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC);
IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.
** For medical emergencies contact your local poison control centre **.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.

Hazard Classification..... Flammable Liquid 2. Eye Irritation — Category 2A. Specific Target Organ Toxicity —
Single Exposure — Category 3. (narcotic effects).

Hazard Description..... H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May
cause drowsiness or dizziness.

Prevention..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P233
Keep container tightly closed. P240 Ground and bond container and receiving equipment.
P241 Use explosion proof equipment. P242 Use only non-sparking tools. P243 Take
precautionary measures against static discharge. P261 Avoid breathing mists, vapours and
sprays. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well
ventilated area. P280 Wear protective gloves and eye protection.

Response P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 +
P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse
thoroughly with water and use safety shower . P305 + P351 + P338 If in eyes rinse
cautiously with water for several minutes. Remove contact lenses, if present and easy to
do. Continue rinsing until medical help arrives. 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/doctor if you feel unwell.

Storage..... P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool.
P405 Store locked up.

Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

Note This product mixture has been classified based on its ingredients.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Isopropyl Alcohol	67-63-0	45-70
<<The actual concentration(s) withheld as a trade secret>>		

SECTION 04: FIRST-AID MEASURES

Eye contact..... In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at
least 15 minutes. Obtain medical attention.

Skin contact..... Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes.
Wash clothing before reuse. If irritation persists, seek medical attention. ** Intended for
skin use **.

PRODUCT: PBC 8201-1 Hand Sanitizer (IPA)**SECTION 04: FIRST-AID MEASURES**

Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion.....	If ingestion is suspected, contact physician or poison control center immediately. Do not induce vomiting. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, whether acute or delayed	Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. High vapour concentrations may be irritating to the respiratory tract.
Additional information.....	Treat victims symptomatically. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media	Water fog. "Alcohol" foam, CO2, dry chemical. Alcohol resistant foams (ATC type) preferred. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Flammable. Material burns with an invisible flame. Solvent vapours may be heavier than air and may build up and travel along the ground to an ignition source, which may result in a flash back to the source of the vapours. Thermal decomposition products are toxic. May include: Oxides of carbon (CO, CO2). Hydrocarbon fumes and smoke.
Special protective equipment and precautions for fire-fighters	Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Keep run-off water from entering sewers and other waterways. Dike for water control.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways. Use non-sparking tools and equipment to pick up the spilled material.
Methods and materials for containment and cleaning up	
Leak/spill.....	FLAMMABLE. Ventilate. Eliminate all sources of ignition. Use non-sparking tools and equipment to pick up the spilled material. Avoid all personal contact. Evacuate all non-essential personnel. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Absorb with an inert dry material and place in an appropriate waste container.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....	Keep away from heat, sparks, and open flame. Ground handling equipment. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Avoid breathing vapours or mist. Handle and open container with care. Employees should wash hands and face before eating or drinking.
Conditions for safe storage, including any incompatibilities	Store away from all sources of heat and ignition. Store away from sunlight. Store away from incompatible materials. Keep container closed when not in use.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	OSHA PEL STEL	REL	NIOSH
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Isopropyl Alcohol	200 ppm	400 ppm	400 ppm (TWA)	500 ppm	400 ppm
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ONT: 200 ppm (TWA), 400 ppm (STEL)

Appropriate engineering controls.....	Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation. Explosion-proof exhaust ventilation.
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Personal Protective Equipment Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits. Be sure to use a NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator.
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PRODUCT: PBC 8201-1 Hand Sanitizer (IPA)**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Eye/type.....	Liquid chemical goggles. Chemical safety goggles and full faceshield if a splash hazard exists.
Gloves/ type.....	Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed.
Clothing/type.....	Wear adequate protective clothes.
Footwear/type.....	Safety boots per local regulations.
Other/type.....	Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Thick liquid.
Colour.....	Clear.
Odour.....	Mild alcohol-like odour.
Odour threshold (ppm).....	No data.
pH.....	No data.
Melting / Freezing point (deg C).....	< 0 °C.
Initial boiling point / boiling range (deg C).....	>82 °C .
Flash point (deg C), method.....	12 °C. (estimate; lowest flash point ingredient).
Evaporation rate.....	1.5. (Isopropyl alcohol).
Flammability (solids and gases).....	Not applicable.
Upper flammable limit (% vol).....	12.0.
Lower flammable limit (% vol).....	2.0.
Vapour pressure (mm Hg).....	33 hPa @ 20C. (Isopropyl alcohol).
Vapour density (air=1).....	>1.
Relative Density (Specific Gravity).....	0.848.
Pounds / USG.....	7.08.
Solubility.....	Completely miscible.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	>370 °C.
Decomposition temperature.....	Not available.
Viscosity.....	No data.
% Volatile by volume.....	74.88.
VOC.....	6.2 lbs/USG; 743 g/L.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Product is stable; hazardous polymerization will not occur.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Hazardous polymerization will not occur.
Conditions to avoid, including static discharge, shock or vibration.....	Avoid heat, spark, open flames. Electrostatic charge. May decompose at elevated temperatures.
Incompatible materials.....	Strong oxidizing agents. Strong acids. Aldehydes. Halogenated compounds.
Hazardous decomposition products.....	No hazardous decomposition products when stored and handled correctly. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Isopropyl Alcohol	72600 mg/m3, rat (4 hr)	1870 mg/kg (oral, rat). 4059 mg/kg (dermal, rabbit)
Acute Toxicity Estimate (ATE).....	ATE mix (oral): . >2300 mg/kg.	
Route of exposure.....	Eye contact. Skin contact. Inhalation. Ingestion.	
Symptoms related to the physical, chemical and toxicological characteristics		
Effects of acute exposure.....	Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage. May cause drying or flaking of the skin. Harmful if inhaled. Causes respiratory tract irritation. Inhalation of vapors may cause central nervous system depression resulting in headache, dizziness, drunkenness, fatigue, drowsiness, nausea and reduced performance during some neurobehavioral tests. Ingestion may cause adverse health effects.	
Effects of chronic exposure.....	Prolonged or repeated skin contact may cause drying or cracking of skin. Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. May cause nausea, headache, dizziness, and drowsiness. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal .	
Carcinogenicity of material.....	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or ACGIH.	
Reproductive effects.....	No component of this product present at levels greater than or equal to 0.1% .	

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Sensitizing capability of material..... None known.
 Specific Target Organ Toxicity May cause drowsiness or dizziness.

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... No product data. Do not allow to enter waters, waste water or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... UN1219 - ISOPROPYL ALCOHOL, Solution, Class 3, Packing Group II - Limited Quantity Index 1L.
 DOT Classification (Road)..... UN1219 - ISOPROPYL ALCOHOL, Solution, Class 3, Packing Group II . Ltd Qty (1 Liter/0.26 Gallons).
 IATA Classification (Air)..... UN1219 - ISOPROPYL ALCOHOL, Solution, Class 3, Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
 IMDG Classification (Marine)..... UN1219 - ISOPROPYL ALCOHOL, Solution, Class 3, Packing Group II. EmS: F-E S-E. Limited Quantity. Check IMDG regulations for limited quantity exemptions.
 Marine Pollutant..... No.
 Proof of Classification..... In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct. .

SECTION 15: REGULATORY INFORMATION

CEPA status..... On Domestic Substances List (DSL).
 TSCA inventory status..... All components are listed.
 OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.
 SARA Title III
 Section 302 - extremely hazardous None.
 substances
 Section 311/312 - hazard categories..... Immediate health. Fire hazard.
 Section 313..... Isopropyl alcohol.
 EPA hazardous air pollutants (HAPS) None.
 40CFR63
 California Proposition 65..... *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Ethyl acrylate). For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.
 Telephone number:..... (800) 387-7981.
 Disclaimer:..... DISCLAIMER: All information appearing herein is based upon data obtained from experience and recognized technical sources. To the best of our knowledge, it is believed to be correct as of the date of issue but we make no representations as to its accuracy or sufficiency and do not suggest or guarantee that any hazards listed herein are the only ones which exist. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. The information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

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