

Section I. Product Identification and Uses

**HMIS (HFRP)**  
**Health Hazard** 2  
**Fire Hazard** 1  
**Reactivity** 0  
**Personal Protection** b

<b>Common / Trade name</b>	WINDOW KLEEN Glass Clnr Aeroso	<b>TDG</b>	Class 2.1
<b>WHMIS</b>	A, D1A, D2A, D2B	<b>PIN</b>	UN1950 AEROSOLS, FLAMMABLE
<b>Code</b>	1016	<b>PG</b>	X
<b>Material uses</b>	Industrial applications: Window cleaner.		

Section II. Hazardous Ingredients

Name	CAS #	% by weight	TLV/PEL	LC50/LD50
2-Butoxyethanol	111-76-2	1 - 5	ACGIH: TWA (8 hours): 20 ppm.	ORAL (LD50): Acute: 530-2616 mg/kg [Rat]. DERMAL (LD50): Acute: 400 mg/kg [Rabbit]. VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat].
Isopropyl alcohol	67-63-0	1 - 5	ACGIH: TWA (8 hours): 200 ppm, STEL: 400 ppm.	ORAL (LD50): > 4720 mg/kg [Rat]. LC50: 12000 ppm (8h) INHALATION
Isobutane	75-28-5	1 - 5	ACGIH: STEL: 1000 ppm.	VAPOR (LC50): Acute: 142500 ppm 4 hour(s) [Rat].
PROPANE	74-98-6	1 - 5	Simple asphyxiant.	Not available.

Section III. First Aid Measures

**Eye contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.

**Inhalation** Allow the victim to rest in a well ventilated area. Seek medical attention if discomfort persists.

**Ingestion** Do not induce vomiting. Have conscious person drink several glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. Since the product is a gas and that it is mostly probable that it will be inhaled more than ingested, please consider first to look at the preventive measures in case of inhalation.

Section IV. Physical Data

<b>Physical state and appearance</b>	Aerosol	<b>Colour</b>	White cloudy.
<b>pH (1% soln/water)</b>	Not available.	<b>Odour</b>	Lemon.
<b>pH (concentrate)</b>	10.40 - 10.85	<b>Volatility</b>	99-100 by weight
<b>Boiling point</b>	83 to 171°C (181.4 to 339.8°F)	<b>Vapour density</b>	> 1
<b>Specific gravity</b>	0.96 to 1.00 (Water = 1)	<b>Vapour pressure</b>	4 to 5.3 kPa (30 to 40 mm Hg) (at 20°C)
<b>Solubility</b>	Miscible in water.		

Section V. Fire and Explosion Data

**The product is** Not a flammable product (as per canadian aerosol regulations).

**Auto-ignition temperature** 245 to 399°C (473 to 750.2°F)

**Flash points** Closed cup: > 14°C (57.2°F). (Tagliabue.)

**Degradation products** Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete.

**Extinguishing media** Use DRY chemicals, CO2, foam or water spray.

Section VI. Reactivity data

**Stability** The product is stable.

**Decomp. products** See fire degradation products.

**Reactivity** Reactive with oxidizing agents.

## Section VII. Toxicological properties

**Route of entry** Dermal contact. Skin absorption. Eye contact. Inhalation. Ingestion.

**Toxicity for animals** See section II

**Acute effects** Irritating to eyes, respiratory system and skin. Hazardous in case of ingestion. Hazardous in case of skin contact (permeator), of inhalation.

**Chronic effects** CARCINOGENIC EFFECTS: No ingredient in this product is currently listed as carcinogens by IARC, NTP or OSHA. MUTAGENIC EFFECTS: Classified None. for human [2-Butoxyethanol]. TERATOGENIC EFFECTS: Classified None. for human [2-Butoxyethanol]. DEVELOPMENTAL TOXICITY: Not toxic. 2-Butoxyethanol : No evidence of risk in human. 2-Butoxyethanol : In animals, effects have been reported on the following organs : Blood (hemolysis), secondary effect to the kidney and liver. Human red blood cells have been shown to be significantly less sensitive to hemolysis than those of rodents and rabbits.

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## Section VIII. Preventive measure

**Waste disposal** Recycle, if possible. Consult your local or regional authorities.

**Storage** Keep container tightly closed. Keep container in a cool, well-ventilated area.

**Precautions** Keep away from heat. Keep away from sources of ignition. Do not breathe gas/fumes/ vapor/spray. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents .

**Spill and leak** Try to stop the gaseous leak by taping the container with an appropriate material (tape, stretched plastic).

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## Section IX. Personal protective equipment

**Gloves** Gloves (impervious)

**Respiratory** In case of insufficient ventilation, wear suitable respiratory equipment.

**Eyes** Safety glasses.

**Other** Splash goggles, gloves, full suit and boots: are recommended under exceptional circumstances such as fire, spill or for prolonged contact with bulk quantities.

**Eng. controls** Ventilation is normally required when handling or using this product.

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## Section X. Preparation and other Information

Validated by the Regulatory Affairs Department on 16 July 2014

### EMERGENCY: CANUTEC 613-996-6666

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.

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### 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

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