



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

PRODUCT: 20030 GLASS CLEANER

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..... 20030 GLASS CLEANER

Recommended use and restrictions on .. Glass cleaner. No restrictions on use known.
use

Chemical family..... Aerosol.

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..... Aerosol - Category 3. Gases Under Pressure: Liquefied Gas. Serious Eye Damage/Eye Irritation — Category 2A. Skin Corrosion/Irritation — Category 3. Specific Target Organ Toxicity — Repeated Exposure — Category 1.

Hazard Description..... H229 Pressurized container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H316 Causes mild skin irritation. H319 Causes serious eye irritation. H372 Causes damage to organs through prolonged or repeated exposure.

Prevention..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P251 Do not pierce or burn container, even after use. P260 Do not breathe mist, vapours, or spray. P264+P265 Wash thoroughly after handling. Do not touch eyes. P270 Do not eat drink or smoke while using this product. P280 Wear protective gloves and eye protection.

Response 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. P314 - Get medical advice/attention if you feel unwell. P337 + P313 - If eye irritation persists get medical attention.

Storage..... P403 Store in a well ventilated area. P410 Protect from sunlight. P412 Do not expose to temperature exceeding 50°C / 122°F.

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

Other hazards..... None known.

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	5-10
2-Butoxyethanol	111-76-2	1-5
Isobutane	75-28-5	1-5
Nitrogen	7727-37-9	0.1-1
Ammonia	7664-41-7	0.1-1

<<The actual concentration(s) withheld as a trade secret>> .

PRODUCT: 20030 GLASS CLEANER**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. Check for and remove any contact lenses, if safe and easy to do so. 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.
Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion.....	Do not induce vomiting. Never give anything by mouth to an unconscious person. If ingestion is suspected, contact physician or poison control center immediately.
Most important symptoms and effects, whether acute or delayed	Causes damage to organs through prolonged or repeated exposure.
Indication of immediate medical attention and special treatment needed, if necessary	Provide general supportive measures. Treat symptomatically. Give oxygen if experiencing shortness of breath. Keep victim warm. Keep victim under general observation. Symptoms may be delayed.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media.....	Dry chemical. CO2. Foam. Water fog. Water spray.
Unsuitable extinguishing media.....	Do not use solid water streams or water jet.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Contents under pressure. Pressurized container may explode when exposed to heat or flame. .
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. Collect contaminated fire extinguishing water separately. Keep run-off water from entering sewers and other waterways. Dike for water control. Remove undamaged containers is safe to do so.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Environmental precautions.....	Do not allow product to leak into drains or waterways. If spill does contaminate waterways then inform authorities.
Personal precautions, protective equipment and emergency procedures	Evacuate personnel to a safe area. Keep unnecessary and unprotected personnel from entering spill area and upwind from spill area. Ensure adequate ventilation. Area will be slippery. Remove all sources of ignition.
Methods and materials for containment and cleaning up	Contain spilled material and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....	Wash hands and arms after handling. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Avoid contact with eyes. Avoid breathing vapours or mist. Use adequate ventilation. Keep away from heat, sparks, and open flame.
Conditions for safe storage, including any incompatibilities	Store in a cool area, away from incompatible materials. Store in a well ventilated area. Store away from sunlight. Keep away from heat, sparks, and open flames. Store away from all sources of heat and ignition. Store away from incompatible materials. Incompatible materials include, but not limited to:. Oxidizers.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Isopropyl Alcohol	200 ppm CA ON: 200 ppm (TWA), 400 ppm (STEL)	400 ppm	400 ppm (TWA)	500 ppm	400 ppm	
2-Butoxyethanol	20 ppm	No data	50 ppm (240 mg/m3)	No data	5 ppm (24 mg/m3)	
Isobutane	Not established	Not established	Not established	Not established	800 ppm	
Ammonia	25 ppm	35 ppm 15 minutes	50 ppm	35 ppm (vacated)	35 ppm - 35 ppm STEL 15 minutes	

25 mg/m3

Appropriate engineering controls.....	Local exhaust should be used to maintain levels below the exposure limits. Ground all equipment and cylinders before use. .
Personal Protective Equipment	

PRODUCT: 20030 GLASS CLEANER**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory/type.....	Wear a NIOSH respirator for emergency use. Respiratory equipment not generally required under normal conditions of use. If airborne concentrations are above applicable exposure limits use a NIOSH approved respirator. Consult your personal protective equipment supplier for additional recommendations.
Eye/type.....	Safety glasses. Consult your personal protective equipment supplier for additional recommendations.
Gloves/ type.....	Not normally required. However, prolonged or repeated contact with skin use chemical resistant gloves conforming to appropriate regulations. Observe the instructions regarding permeability and breakthrough time. Wear rubber or latex gloves during prolonged use of the product. Consult your personal protective equipment supplier for additional recommendations.
Clothing/type.....	Wear adequate protective clothes. Consult your personal protective equipment supplier for additional recommendations.
Footwear/type.....	Wear chemical resistant safety boots. Consult your personal protective equipment supplier for additional recommendations.
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.....	Aerosol. Foam.
Colour.....	Not available.
Odour.....	Fragrance.
Odour threshold (ppm).....	Not available.
pH.....	Neutral.
Initial boiling point / boiling range (deg C).....	Not available.
Melting / Freezing point (deg C).....	Not available.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	Not available.
Relative Density (Specific Gravity).....	Not available.
Evaporation rate.....	Not available.
VOC Content.....	Greater than 10%.
Solubility.....	Soluble.
Aerosol Ignition Distance.....	Ignition distance of less than 15 cm.
Flashback.....	No.
Auto ignition temperature (deg C).....	460°C (860°F). (Propellant).
Flash point (deg C), method.....	-82.8 Closed cup . (Propellant).
Lower flammable limit (% vol).....	1.8. (Propellant).
Upper flammable limit (% vol).....	8.8. (Propellant).

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	Keep away from heat. Flame. Electrostatic charge. Incompatible with strong oxidizers.
Incompatible materials.....	Oxidizers.
Hazardous decomposition products.....	No hazardous decomposition products when stored and handled correctly.

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)
2-Butoxyethanol	450 ppm 4 hr rat	1300 mg/kg (rat oral) >2000 mg/kg (rabbit dermal)
Isobutane	52 mg/L 1 hour mouse	Not available
Nitrogen	NOT AVAILABLE	NOT AVAILABLE
Ammonia	48.4 mg/L 1 hour rat	350 mg/kg oral rat
Route of exposure.....	Inhalation. Skin contact. Eye contact. Ingestion.	
Symptoms related to the physical, chemical and toxicological characteristics	Irritation effects.	
Acute Toxicity.....	No known significant effects.	
Skin corrosion/irritation.....	Causes mild skin irritation. Prolonged contact may be more irritating.	
Serious eye damage/eye irritation.....	Causes serious eye irritation.	

PRODUCT: 20030 GLASS CLEANER**SECTION 11: TOXICOLOGICAL INFORMATION**

Respiratory or Skin Sensitization.....	Not classified.
Carcinogenicity.....	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Mutagenicity.....	No component of this product present at levels greater than or equal to 0.1% .
Reproductive effects.....	No data on reproductive effects were found in the literature sources consulted.
STOT-SE.....	No data.
STOT-RE.....	Causes damage to organs through repeated or prolonged exposure.
Aspiration Hazard.....	Not classified.
Chronic toxicity.....	No long term are known or expected.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	No available data on the product itself. This product should not be released to the environment. This product contains the following substance which may also be hazardous for the environment: Isopropanol (CAS#: 67-63-0): Toxicity to fish: LC50 9,640 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 5,102 mg/L, 96 hrs; Toxicity to algae: EL50 >2,000 mg/L, 72 hrs.
Mobility in soil.....	Product has not been tested.
Bioaccumulative potential.....	Product has not been tested.
Persistence and degradability.....	Product has not been tested.

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.
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SECTION 14: TRANSPORT INFORMATION

TDG Classification.....	UN1950 - AEROSOLS - Class 2.2 - limited quantity 1L.
DOT Classification (Road).....	UN1950 - AEROSOLS - Class 2.2 - limited quantity 1L. Refer to 49CFR 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air).....	UN1950 - AEROSOLS, non-flammable - Class 2.2 - Ltd. Qty. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1950 - AEROSOLS - Class 2.2 - Limited Quantity. Check IMDG regulations for limited quantity exemptions.
Marine Pollutant.....	Potential marine pollutant.
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).
National Pollutant Release Inventory (NPRI).....	Some components are subject to reporting under NPRI. Please check your responsibility. (CAS # 67-63-0 (Cat 1A & 5)). (CAS # 111-76-2 (Cat 1A & 5)).
Environmental Emergency Regulations....	Some components of this product are on the Environmental Emergency Regulations and may require additional reporting. Isobutane (CAS # 75-28-5) Part 1. Ammonia (CAS # 7664-41-7) Part 1 & 2.
Code of Practice.....	Ammonia (CAS # 7664-41-7).
Release Guidelines.....	Ammonia (CAS # 7664-41-7).
Categorization of the DSL.....	Some components may have met the criteria under subsection 73(1) of CEPA during categorization of the DSL. Please check to see if this affects your company. (CAS # 67-63-0). (CAS # 75-28-5). (CAS # 7664-41-7).
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 substances.....	None known.
Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	Isopropyl alcohol.
EPA hazardous air pollutants (HAPS) 40CFR63	Isobutane. Isopropyl alcohol.
California Proposition 65.....	This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity. For more information, go to www.P65Warnings.ca.gov .

PRODUCT: 20030 GLASS CLEANER

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS.
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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