



Plastique Royal
2809 Rue Etienne Lenoir
Laval, H7R 6J4
QC

PRODUCT: R 5711S GLASS CLEANER

Section 01: Chemical product and company identification

Product name..... R 5711S GLASS CLEANER
 Manufactured for..... Plastique Royal Inc.,
 2809 Rue Etienne-Lenoir
 Laval, QC H7R 6J4
 24 hour emergency number..... IN CANADA CALL CANUTEC (613) 996-6666-IN THE UNITED STATES CALL
 CHEMTREC (800) 424-9300.
 Material use..... Cleaning solution. This product should not be used for any other purpose other than the
 ones described in this section.
 Chemical family..... Mixture.
 Preparation date..... November 21, 2014.
 Hazard rate
 NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.
 HMIS..... H: 2 F: 4 R: 0.

Section 02: Hazards identification



Signal Word..... DANGER.
 Hazard Classification..... Flammable Liquid 2. Flammable Aerosol 1. Gas under pressure: Compressed Gas. Skin
 Irritant 2. STOT SE 3.
 Hazard Description..... H225 Highly flammable liquid and vapour. H222 Extremely flammable aerosol . H280
 Contains gas under pressure; may explode if heated. H315 Causes skin irritation. H319
 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
 Precautionary Statements..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P211 Do
 not spray on an open flame or other ignition sources. 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. P251 Do not pierce or burn container, even after use. P261 Avoid
 breathing mists, vapours and sprays. P264 Wash hands thoroughly after handling. P271
 Use only outdoors or in a well ventilated area. P280 Wear protective gloves and eye
 protection.
 Response P302 + P352 - If on skin: wash with plenty of water. . P303 + P361 + P353 If on skin or in
 hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use
 safety shower . P304 + P340 - If inhaled remove person to fresh air and keep comfortable
 for breathing. 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. P312 Call a poison center/doctor if you feel unwell. P321 - Consult with a
 doctor or poison control centre if skin is itchy or a skin rash develops or you feel unwell.
 P332 + P313 - If skin irritation occurs get medical attention or advice. P337 + P313 - If eye
 irritation persists get medical attention. P362 + P364 - Take off contaminated clothing and
 wash before reuse. P370 + P378 In case of fire - use dry chemical powder, CO2 or 6%
 foam.
 Storage..... P403 Store in a well ventilated area. P403 + P233 Store in a well ventilated area. Keep
 container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P410
 Protect from sunlight. P412 Do not expose to temperature exceeding 50C / 122F.
 Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	Wt. %
ISOPROPYL ALCOHOL	67-63-0	7-13
ISOBUTANE	75-28-5	5-10
2 BUTOXY ETHANOL	111-76-2	3-7
AMMONIA	7664-41-7	0.1-1.0

PRODUCT: R 5711S 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. Obtain medical attention.
Skin contact.....	Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. 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. If ingestion is suspected, contact physician or poison control center immediately. 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.
Additional information.....	Treat victims symptomatically. The main hazard from ingestion is aspiration of the liquid into the lungs. 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

Extinguishing media.....	"Alcohol" foam, CO2, dry chemical. In cases of larger fires, water spray should be used.
Hazardous combustion products.....	Oxides of carbon (CO, CO2).
Special fire fighting procedures.....	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. Heat will cause pressure buildup and may cause explosive rupture.

Section 06: Accidental release measures

Leak/spill.....	Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, provincial, state, and federal regulations. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Shovel into suitable unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%); or water (90%), concentrated ammonia (3-8%) and detergent (2%).
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Section 07: Handling and storage

Handling procedures.....	Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. 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. Ground handling equipment. Handle and open container with care. Employees should wash hands and face before eating or drinking. Keep away from heat, sparks, and open flame.
Storage needs.....	Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight.

Section 08: Exposure controls / personal protection

Protective equipment	
Eye/type.....	Liquid chemical goggles.
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.
Gloves/ type.....	Chemical resistant gloves.
Clothing/type.....	Wear adequate protective clothes.
Footwear/type.....	Safety boots per local regulations.
Other/type.....	Emergency showers and eye wash stations should be available.
Ventilation requirements.....	Local exhaust at points of emission.
Exposure limits	

Ingredients	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
ISOPROPYL ALCOHOL	200 ppm	400 ppm	400 ppm	500 ppm	400 ppm
ISOBUTANE	Not established	Not established	Not established	Not established	800 ppm
2 BUTOXY ETHANOL	20 ppm	No data	50 ppm	25 ppm (vacated)	5 ppm
AMMONIA	25 ppm	35 ppm 15 minutes	50 ppm	35 ppm (vacated)	35 ppm - 35 ppm STEL 15 minutes

PRODUCT: R 5711S GLASS CLEANER**Section 09: Physical and chemical properties**

Physical state.....	Aerosol.
Colour.....	Clear, colourless.
Odour.....	Ammonia.
Odour threshold (ppm).....	No data.
Vapour pressure (mm Hg).....	25-35 psig @ 70f.
Vapour density (air=1).....	>1.
pH.....	Not applicable.
Specific gravity.....	Liquid: 0.97 lb/uscg (0.12 g/mL) Aerosol: 0.946 lb/uscg (0.11 g/mL).
Freezing point (deg C).....	No data.
Solubility.....	Complete.
Boiling point (deg C).....	-12°C.
Evaporation rate.....	Slower than n-butyl acetate.
Flash point (deg C), method.....	12.0 °C Closed Cup. -117°C Closed Cup (proppellant).
Auto ignition temperature (deg C).....	460 °C (proppellant) .
Upper flammable limit (% vol).....	8.4.
Lower flammable limit (% vol).....	1.8.
Coefficient of water/oil distribution.....	No data.
% Volatile by volume.....	22.
VOC.....	1.32 lb/uscg - 159 g/L.
Viscosity.....	No data.

Section 10: Stability and reactivity

Stability.....	Stable at normal temperatures and pressures.
Reactivity conditions.....	Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents.
Incompatibility.....	Keep away from heat. Incompatible with strong oxidizers.
Hazardous products of decomposition.....	By fire: Dense black smoke. Oxides of carbon (CO,CO2).
Hazardous polymerization.....	Hazardous polymerization will not occur.

Section 11: Toxicological information

Route of entry	Eye contact. Skin contact. Inhalation.
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Prolonged or repeated skin contact may cause drying or cracking of skin. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal .
Skin contact.....	Can cause moderate irritation, defatting and dermatitis.
Skin absorption.....	May be harmful if absorbed through the skin.
Eye contact.....	Can cause redness, irritation, tissue destruction.
Inhalation (acute).....	Excessive inhalation of vapours can cause respiratory irritation, dizziness, headache, vomiting and unconsciousness.
Inhalation (chronic).....	Chronic exposure to organic solvent vapors have been associated with various neurotoxic effects including permanent brain and/or nervous system damage, kidney, liver, blood damage and reproductive effects among women. Symptoms may include nausea, vomiting, abdominal pain, headache, impaired memory, loss of coordination, insomnia and breathing difficulties.
Ingestion.....	May be harmful or fatal if swallowed. Swallowing causes inebriation, headache, vomiting, leading to severe illness, blindness, even death. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.
Carcinogenicity of material.....	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.
Reproductive effects.....	None.
Toxicological Data	

Ingredients	LC50-inh, rat	LD50-Oral,rat
ISOPROPYL ALCOHOL	16,000 ppm 8 hours rat inhalation	5,000 mg/kg rat oral 12,800 mg/kg rabbit dermal
ISOBUTANE	52 mg/L 1 hour mouse	No data
2 BUTOXY ETHANOL	450 ppm 4 hours rat	470 mg/kg oral rat 400 mg/kg dermal rabbit
AMMONIA	48.4 mg/L 1 hour rat	350 mg/kg oral rat

Section 12: Ecological information

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

PRODUCT: R 5711S GLASS CLEANER**Section 13: Disposal considerations**

Waste disposal..... This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.

Section 14: Transport information

TDG Classification (Road)..... UN1950 - AEROSOLS, flammable - Class 2.1 - This product meets limited quantity exemption when shipped in containers less than 1 Litre.
DOT Classification (Road)..... UN1950 - AEROSOLS, flammable - Class 2.1 - Ltd Qty (1 Liter/0.26 Gallons).
IATA Classification (Air)..... UN1950 - AEROSOLS, flammable - Class 2.1 - Limited Quantity.
IMDG Classification (Marine)..... UN1950 - AEROSOLS - Class 2.1 - EmS: F-D, S-U - Limited Quantity.
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

WHMIS classification..... A. B5. D2B.
CEPA status..... On Domestic Substances List (DSL).
OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.
SARA Title III
Section 302 - extremely hazardous Ammonia.
substances
Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.
Section 313..... Isopropyl alcohol. Ammonia.
EPA hazardous air pollutants (HAPS) None.
40CFR63
TSCA inventory status..... All components are listed.
California Proposition 65..... This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity.

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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