



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier used on the label: **SPOTLESS WINDOW & GLASS CLEANER**

Recommended use of the chemical and restrictions on use:

- Ammonium Free Glass Cleaner

Chemical Manufacturer:

SCL (Trinidad) Limited
LP # 45, Saddle Road,
San Juan, Trinidad,
West Indies.
Telephone No.: 675-5555
Email: sales@scl-group.com
Website: www.scl-group.com

24 Hr. Emergency Telephone No.: For **CHEMTREC** assistance, call: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical

- Clear coloured liquid.
- Mild Alcoholic odour.

Hazard classification:

- Flammable Liquid – Category 1
- Acute toxicity via inhalation – Category 1
- Acute toxicity via dermal – Category 1
- Acute toxicity via oral – Category 1
- Skin irritation – Category 1
- Serious eye damage/eye irritation – Category 2A

Health Hazard Pictogram:



Hazard Statements: Effects of over-exposure:

- Harmful if swallowed.
- Causes serious eye irritation.
- Causes skin irritation.

Precautionary statements:

- Do not eat, drink, or smoke when using this product. Use only in a well-ventilated area.
- Wear protective gloves/clothing and eye/face protection.
- If on skin: Rinse with soap and water.
- Take off contaminated clothing and wash it before reuse. If skin irritation occurs, seek medical attention.
- If it comes in contact with the Eyes: Rinse cautiously with water for several minutes. If eye irritation persists, seek medical attention.
- If inhaled: Remove the person to fresh air and keep in a comfortable position for breathing.
- If swallowed: Rinse your mouth and seek medical attention.
- Store and secure in a cool, well-ventilated place. Keep the container tightly closed.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

- Other hazards that do not result in classification: Ingestion may cause gastrointestinal irritation or nausea.

SECTION 3: COMPOSITION / INFORMATION OF INGREDIENTS

Chemical Name	Common names or synonyms	CAS #	Concentration % by weight
Isopropyl Alcohol	IPA	67-63-0	10 => 18%
Ethylene Glycol Monobutyl Ether	2-Butoxy Ethanol or Glycol Ether EB	111-76-2	1.0 => 5%

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

- **Inhalation:** May cause mild irritation to the nose, eyes and throat. Remove the individual to fresh air. Seek medical attention if, symptoms persist.
- **Ingestion:** Possible mild stomach upset. Do NOT induce vomiting. If swallowed, drink water. Seek medical attention if symptoms persist.
- **Skin contact:** Possible irritation if skin is inflamed. Rinse the affected area with water.



- **Eye contact:** Possible mild irritation, may cause redness of the eyes. Immediately flush eyes with large amounts of running water, lifting upper and lower lids for at least 15 to 20 minutes. Seek medical attention if symptoms continue to persist.

SECTION 5: FIRE FIGHTING MEASURES

- Extinguishing media if comes in contact with open flames: Water Spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to the area until completion of clean-up. Refer to the protective measures listed in sections 7 and 8.

Environmental precautions: Do not allow material to contaminate the groundwater system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up: Prevent further leakage or spillage if safe to do so. Absorb material with inert absorbent, and place into labelled containers for disposal. Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements. US CERCLA Reportable quantity (RQ): None.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Use only in well-ventilated areas. Avoid breathing mist or vapours. Avoid contact with skin, eyes, and clothing. Keep the container tightly closed. Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling.

Storage: Store in a cool/well-ventilated place. The storage area should be identified, clear of obstruction, and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Keep the container tightly closed

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH		OSHA PEL	
	TWA	STEL	PEL	STEL
Ethylene Glycol Monobutyl Ether	20ppm	N/Av	50ppm (skin)	N/Av

Exposure controls:

- **Ventilation and engineering measures:** Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.
- **Respiratory protection:** If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.
- **Skin protection:** Wear protective gloves/clothing. Where extensive exposure to the product is possible, use resistant coveralls, apron, and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- **Eye/face protection:** Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles.
- **Other protective equipment:** Other equipment may be required depending on workplace standards.
- **General hygiene considerations:** Avoid breathing mists. Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good manufacturing practices / industrial hygiene and safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** clear, coloured liquid
- **Specific Gravity:** 0.950 – 0.990
- **Odour:** mild alcoholic
- **pH:** 9.0 – 10.5
- **Shelf Life:** 1 Year

SECTION 10: STABILITY AND REACTIVITY

- **Reactivity:** Not reactive
- **Chemical stability:** Stable under normal conditions for storage and use.
- **Possibility of hazardous reactions:** Hazardous polymerization does not occur.
- **Conditions to avoid:** Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Avoid prolonged storage.
- **Incompatible materials:** Strong oxidizers (e.g. Chlorine, Peroxides, etc.).
- **Hazardous decomposition products:** None known.

SECTION 11: TOXICOLOGICAL INFORMATION**Information on likely routes of exposure:**

- Routes of entry inhalation: Yes
- Routes of entry skin & eye: Yes
- Routes of entry Ingestion: Yes
- Routes of exposure skin absorption: Yes

Potential Health Effects: Signs and symptoms of short-term (acute) exposure:

- **Signs and symptoms of inhalation:** Harmful if inhaled. May cause respiratory irritation. Symptoms may include coughing and sneezing. Inhalation may cause headaches, nausea, and central nervous effects such as dizziness, coordination difficulties, and unconsciousness.
- **Signs and symptoms of ingestion:** Harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, and diarrhoea. Maybe an aspiration hazard.
- **Sign and symptoms skin:** This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Skin irritation. Category 2 causes skin irritation.
- **Signs and symptoms of eyes:** Toxic in contact with skin. May be absorbed and cause symptoms similar to those for inhalation: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Eye damage/irritation Category 2A causes serious eye irritation.

Chronic Health Effects:

- Repeated exposure may cause skin dryness or cracking.
- Mutagenicity: Not expected to be mutagenic in humans.
- Carcinogenicity: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive Effects & Teratogenicity

- This product is not expected to cause reproductive or developmental effects.
- Sensitization to material: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

Synergistic materials: No information available.

Toxicological data: See below for toxicological data on the substance. Acute Toxicity, inhalation – Category 1

Acute toxicity, dermal - Category 1, Acute toxicity, oral - Category 1

Chemical Name	LC ₅₀ (4hr.) (Inh, rat)	LD ₅₀ (Oral, rat)	LD ₅₀ (Rat, dermal)
Isopropyl Alcohol	72,600mg/m ³	5,000 mg/kg	12,800mg/kg
Ethylene Glycol Monobutyl Ether	450ppm (2.175mg/L)	530mg/kg	400-500mg/kg

Other important toxicological hazards: None reported by the manufacturer.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Do not allow material to contaminate groundwater system. See the following tables for the substance's Ecotoxicity data.

Ingredients	CAS No.	Toxicity to Fish		
		LC50/96hrs	NOEC/21days	M Factor
Ethylene Glycol Monobutyl Ether	111-76-2	1490mg/L (Lepomis macrochius)	>100mg/L (zebra fish)	none

Ingredients	CAS No.	Toxicity to Daphnia		
		EC50/48hrs	NOEC/21days	M Factor
Ethylene Glycol Monobutyl Ether	111-76-2	835mg/L (Daphnia) magna)	100 mg/L (Daphnia magna)	none

Ingredients	CAS No.	Toxicity to Algae		
		EC50/96hrs or 72 hrs	NOEC/96hrs or 72 hrs	M Factor
Ethylene Glycol Monobutyl Ether	111-76-2	911 mg/L (green algae)	286 mg/L (green algae)	none

Persistence and degradability: Readily biodegradable.

Bioaccumulation potential: Not expected to bio-accumulate

Components	Partition coefficient n-octanol/water (log _{kw})	Bio-concentration factor (BCF)
Ethylene Glycol Monobutyl Ether	0.81 at 25°C	0.97

Mobility in soil: No data is available on the product itself.

Other Adverse Environmental Effects: None known.





SECTION 13: DISPOSAL CONSIDERATIONS

Handling for Disposal: Handle in accordance with good industrial hygiene and safety practices. Refer to the protective measures listed in sections 7 and 8.

Methods of Disposal: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	UN Proper shipping name	Transport Hazard Classes	Packing Group	Label
49 CFR /DOT Additional Information	None	Not regulated	Not regulated	N/Ap	
TDG Additional Information	None	Not regulated	Not regulated	N/Ap	
IMDG Additional Information	None	Not regulated	Not regulated	N/Ap	
ICAO/IATA Additional Information	None	Not regulated	Not regulated	N/Ap	

Special precautions for users: Appropriate advice on safety must accompany the package.

Environmental hazards: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: This information is not available.

SECTION 15: REGULATORY INFORMATION

US Federal Information: Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity (RQ) 40 CFR 117.302	SARA TITLE III Sec: 302 Extremely Hazardous Substance, 40 CFR 355	SARA TITLE III Sec: 313, 40 CFR 372, Specific Toxic Chemical	SARA TITLE III Sec: 313, 40 CFR 372, Specific Toxic Chemical
Ethylene Glycol Monobutyl Ether	111-76-2	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements. No data.

US State Right-to-Know Laws: The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" List						
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI	
Ethylene Glycol Monobutyl Ether	111-76-2									
		No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes	

Canadian Information: Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information: Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICs	Philippines PICCS	Japan ENCS	Korea KECI/K ECL	China IECSC	New Zealand IOC
Ethylene Glycol Monobutyl Ether	111-76-2	203-905-0	Present	Present	(7)-97, (2)-407	KE-04134	Present	HSR001 154

SECTION 16: OTHER INFORMATION

LEGEND/KEY:

- ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- ATE: Acute Toxicity Estimate CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association

- DOT: Department of Transportation
- ECHA: European Chemicals Agency
- ECOTOX: U.S. EPA Ecotoxicology Database
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- IECSC: Inventory of Existing Chemical Substances
- IMDG: International Maritime Dangerous Goods
- IOC: Inventory of Chemicals
- IUCLID: International Uniform Chemical Information Database
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose MA: Massachusetts
- MN: Minnesota
- N/Ap: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NJ: New Jersey
- NOEC: No observable effect concentration
- NTP: National Toxicology Program
- OECD: Organisation for Economic Co-operation and Development
- OSHA: Occupational Safety and Health Administration
- PA: Pennsylvania
- PEL: Permissible exposure limit
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- RCRA: Resource Conservation and Recovery Act
- RI: Rhode Island
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- SDS: Safety Data Sheet / Material Safety Data Sheet
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TSCA: Toxic Substance Control Act
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System

REFERENCES:

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2016
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2016(Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - 2016 version.
6. California Proposition 65 List - 2016 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2016.
8. Chemical Safety Facts: <https://www.chemicalsafetyfacts.org/chemicals/butoxyethanol-2-butoxyethanol/>
9. USEPA: TSCA Chemical Substance Inventory: <https://www.epa.gov/tscainventory>
10. University of Illinois, USA: Division of Research Safety: <https://drs.illinois.edu/Page/SafetyLibrary/ChemicalHazardClassification>

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Other special considerations for handling: Provide adequate information, instruction, and training for operators.

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