

SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015



Date Issued : 01/16/2019
SDS No : SKS Glass Cleaner 500g_ENG
Date Revised : 04/25/2019
Revision No : 2

SKS GLASS CLEANER, aerosol

1. IDENTIFICATION

Product Name: SKS GLASS CLEANER, aerosol
Product Description: Glass Cleaner, aerosol 500 g / 1.1 lb
General Use: Surface Cleaner
Product Stock/Code: SKS / 240440
Chemical Family: Water-based Solvent
Molecular Formula: Mixture

Manufacturer / Supplier

Dominion Sure Seal Ltd.
6175 Danville Road, Mississauga
Ontario, Canada L5T 2H7
Fax: 905-670-5174
www.dominionsureseal.com
Customer Service: 905-670-5411

Emergency Telephone Numbers (24 hour)

CANUTEC : (613) 996-6666
CHEMTREC : (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

The classification and label elements stated below were prepared in accordance with the USA OSHA Hazard Communication Standard (29 CFR 1910.1200; Hazcom 2012) and the Canadian WHMIS regulations (Hazardous Products Regulations; WHMIS 2015). This information may be different from the actual product label information for labels that are regulated by other agencies.

Health hazards:

Eye Irritation, Category 2B

Physical hazards:

Flammable Aerosols, Category 2
Gases Under Pressure

Label elements

Hazardous components for labelling:

2-butoxyethanol, Isopropyl alcohol and Ammonium hydroxide



Flame



Gas
cylinder

Signal Word: WARNING

Hazard statement(s)

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H223: Flammable aerosol.

H280: Contains gas under pressure; may explode if heated.

H320: Causes eye irritation.

Precautionary statement(s)

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Pressurized container: Do not pierce or burn, even after use.

P264: Wash hands thoroughly after handling.

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.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.

Storage:

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P403: Store in a well-ventilated place.

Disposal:

NAP: Not applicable

Hazards Not Otherwise Classified: No data available.

Emergency Overview

Immediate concerns: Flammable aerosol. Slightly irritating to the eyes. May cause respiratory irritation.

Substance does not generally irritate and is only mildly irritating to the skin. Prolonged and repeated skin contact may lead to slight transient irritation in sensitive individuals. May be harmful if swallowed, in contact with skin or if inhaled. Contents under pressure.

Comments: See sections 9 and 10 for more detailed information on physicochemical effects.

See section 11 for more detailed information on health effects.

See sections 12 for more detailed information on environmental effects.

The actual container label may not include the above label elements. The labeling shown above applies to products used solely for industrial / professional use.

Consumer products should be labeled in accordance with the Canadian Consumer Chemicals and Containers Regulations and US Consumer Product Safety Commission regulations. Consumer product labeling takes precedence over Canadian WHMIS 2015 and OSHA Hazcom 2012 Hazard Communication labeling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS number
Water (non-hazardous ingredient)	88 - 88.5	7732-18-5
Isobutane	5.1 - 5.3	75-28-5
2-butoxyethanol	3.6 - 3.9	111-76-2
Isopropyl alcohol	3.6 - 3.9	67-63-0
Propane	0.8 - 1	74-98-6
Ammonium hydroxide	0.21 - 0.27	1336-21-6

Comments: There are no additional ingredients present which, within the current knowledge of the supplier, are

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classified and contribute to the classification of the product and hence require reporting in this section.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Get medical attention, if irritation persists.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: Rinse mouth with water. Give 1 to 2 glasses of water to drink. Get medical attention if symptoms occur.

Inhalation: If affected by inhalation of spray mist, move to fresh air. Get medical attention if symptoms persist.

Signs and Symptoms of Overexposure

Eye Contact: Mildly irritating to the eyes. Symptoms may include tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Skin Contact: Substance does not generally irritate and is only mildly irritating to the skin. Prolonged or repeated contact may cause slight skin irritation. May be absorbed through the skin in harmful amounts.

Ingestion: Substance may be harmful if swallowed.

Inhalation: High vapor or spray mist concentrations may be harmful if inhaled. Spray mist may be irritating to eyes and respiratory tracts.

Notes to Physician: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

Additional Information: No data available.

5. FIRE FIGHTING MEASURES

Flammable Properties: Will burn if involved in a fire.

Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Fire Fighting Procedures: Containers can build up pressure if exposed to heat (fire).

Fire Fighting Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Sensitivity to Static Discharge: Product is not sensitive to static discharge.

Sensitivity to Mechanical Impact: Product is sensitive to mechanical impact. Do not puncture container. Contents under pressure. Do not expose to heat or store above 120 °F (49 °C).

6. ACCIDENTAL RELEASE MEASURES

Small Spill: Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Avoid contact with eyes, skin, and clothing.

Environmental Precautions

Water Spill: Do not flush to sewer.

Land Spill: Avoid runoff into storm sewers and ditches which lead to waterways.

Special Protective Equipment: Clean up spills immediately, observing precautions in Protective Equipment section 8.

7. HANDLING AND STORAGE

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General Procedures: Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practices.

Handling: Contents under pressure. Do not expose to heat or store above 120 °F (49 °C). Use only in a well ventilated area. Do not puncture container. Do not breath vapors or spray mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Storage: Keep away from heat and flame. Store in a cool dry place. Container may explode if heated. Do not incinerate.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

OSHA / WHMIS 2015 HAZARDOUS COMPONENTS				
Chemical Name	Occupational Exposure Limits			mg/m ³
	Type		ppm	
Isobutane	ACGIH TLV	STEL	1000	--
	NIOSH REL	TWA	800	1900
2-butoxyethanol	OSHA PEL	TWA	50	240
	ACGIH TLV	TWA	20	97
	NIOSH REL	TWA	5	24
Isopropyl alcohol	OSHA PEL	TWA	400	980
	ACGIH TLV	TWA	200	491
		STEL	400	984
	NIOSH REL	TWA	400	980
STEL		500	1225	
Ammonium hydroxide	ACGIH TLV	TWA	25	--
		STEL	35	--
	OSHA PEL	TWA	50	35
	NIOSH REL	TWA	25	18
STEL		35	27	

Engineering Controls: Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Eyes and Face: Wear safety glasses with side shields (or goggles).

Skin Contact: Wear chemical resistant gloves.

Respiratory: Generally not required. Wear respiratory protection if ventilation is inadequate.

Protective Clothing: Generally not required.

Work Hygienic Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid, without aerosol propellants

Odor : Mild ammonia-like

Odor Threshold : No data available.

Appearance	: Aerosol
Color	: Clear, colourless
pH	: 10.7 to 11.0
% Volatiles	: > 99.5 % w/w
Flash Point and Method	: > 48°C (118.5°F) Closed Cup [aerosol concentrate]
Flammable Limits	: No data available.
Autoignition Temperature	: No data available.
Vapor Pressure	: 45 - 60 psig at 20°C
Vapor Density	: > 1 (air = 1)
Boiling Point	: 83°C, isopropyl alcohol [lowest known value of aerosol concentrate]
Freezing Point	: No data available.
Melting Point	: No data available.
Solubility in Water	: Soluble
Evaporation Rate (n-butyl acetate = 1)	: > 1
Density	: 0.985-0.990 g/ml at 20°C
Notes:	An estimate for the aerosol concentrate density.
Viscosity	: < 10 cps
VOC Content	: 11.5 - 12.0% w/w (< 115 g/l)
Oxidizing Properties	: None

Comments:**Flammability Statement:**

The flammability of an aerosol is determined by its flame extension and/or flashback.

Flammability:	Yes
Aerosol Flame Projection:	0 cm
Flashback:	None
Calculated Aerosol Chemical Heat of Combustion, kJ/g	4.0 to 4.5

VOC Compliance Statement

Total Volatiles:	>99.5 % w/w
VOC Content:	11.5 to 12.0 % w/w Total Material: 110 to 115 g/l (< 1.0 lb/gal)
Density:	0.940 ± 0.005 g/ml
Water Content:	88 to 88.5 % w/w
Exempt Content:	0 % w/w
VOC Regulation:	OTC state Consumer Product Regulations
Product Category:	Glass Cleaners, aerosols
Restrictions from Sale:	No

The product VOC content does not meet the current 12% w/w limit under the CARB Consumer Product Regulations for Glass Cleaner, aerosol.

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VOC Regulation: Consumer Product Regulations – CARB-California

Product Category: Glass Cleaner, aerosol

Restrictions from Sale: **YES**

The product VOC content does **not** meet the current 10% w/w limit under the CARB Consumer Product Regulations for Glass Cleaner, aerosol.
Not for sale in California.

Check your area for compliance before using this product.

10. STABILITY AND REACTIVITY

Reactive Hazard : No

Hazardous Polymerization: Not expected to occur.

Stability: Stable.

Conditions to Avoid: Container may explode if heated.

Possibility of Hazardous Reactions: No data available.

Hazardous Decomposition Products: Carbon Monoxide and other toxic vapors.

Incompatible Materials: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	Oral LD ₅₀ mg/kg(rat)	Dermal LD ₅₀ mg/kg (rabbit)	Inhalation LC ₅₀ mg/l
Isobutane	Not Applicable	Not Applicable	658(rat;4h) 570,000 ppm (rat;15m) 680(mouse;2h)
2-butoxyethanol	470(rat) 1200(mouse)	220 400	2.17(rat;4h)
Isopropyl alcohol	4710-5840 4475(mouse) 5030(rabbit)	12,870	51.0(rat;8h) 72.6(rat;4h)
Propane	Not Applicable	Not Applicable	>800,000 ppm (rat,15m) [>1443 mg/L]
Ammonium hydroxide	350	No data available.	7068 ppm (rat,4h) 17,633 ppm (rat,1h)

Acute Toxicity - Dermal LD₅₀: Based on available ingredient data, the classification criteria for Acute Dermal Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg. Slightly toxic. May be absorbed through the skin in harmful amounts.

Acute Toxicity - Oral LD₅₀: Based on available ingredient data, the classification criteria for Acute Oral Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg. Slightly toxic. May be harmful if swallowed.

Acute Toxicity - Inhalation LC₅₀: Based on available ingredient data, the classification criteria for Acute Toxicity - inhalation are not met for this mixture. The calculated ATE is >20 mg/l/4h (vapours) and >5 mg/l/4h (mists). High vapor or spray mist concentrations may be harmful if inhaled.

Notes: < 5% of the mixture consists of an ingredient or ingredients of unknown acute toxicity.
No additional toxicology information is available for this product itself. (See Component Toxicity Information).

Primary Routes of Entry:

Eye contact. Skin contact. Inhalation.

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Skin Irritation / Corrosion: Based on available data, the classification criteria for skin irritation are not met for this mixture. Substance does not generally irritate and is only mildly irritating to the skin. Prolonged or repeated contact may cause skin irritation.

Eye Irritation / Serious Eye Damage: Contains: 2-butoxyethanol, Isopropyl alcohol and Ammonium hydroxide . Slightly irritating but does not injure eye tissue. The mixture is classified as: Eye Irritant, category 2B, based on summation of ingredient data. Symptoms may include pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Respiratory / Skin Sensitizer: Based on available data, the classification criteria for respiratory sensitization are not met for this mixture (< 0.1% ingredients classified as a respiratory sensitizer, category 1 or sub-category 1A and < 1.0% ingredients classified as a respiratory sensitizer, sub-category 1B).

Based on available data, the classification criteria for skin sensitization are not met for this mixture (< 0.1% ingredients classified as a skin sensitizer, category 1 or sub-category 1A and < 1.0% ingredients classified as a skin sensitizer, sub-category 1B).

Germ Cell Mutagenicity: Based on available data, the classification criteria for Germ Cell Mutagenicity are not met for this mixture (< 0.1% ingredients classified as Germ Cell Mutagen, category 1A or 1B and < 1.0% ingredients classified as Germ Cell Mutagen, category 2).

Carcinogenicity

Chemical Name	NTP status	IARC status	OSHA status	Other
Isobutane	--	--	--	--
2-butoxyethanol	--	3	--	A3 (ACGIH)
Isopropyl alcohol	--	3	--	--
Propane	--	--	--	--
Ammonium hydroxide	--	--	--	--

Notes: Based on available data, the classification criteria for Carcinogenicity are not met for this mixture (< 0.1% ingredients classified as a Carcinogen, category 1 or 2).

Reproductive Toxicity: Based on available data, the classification criteria for Reproductive Toxicity are not met for this mixture (< 0.1% ingredients classified as Reproductive Toxicity, category 1 or 2).

Specific Target Organ Toxicity - Single Exposure: Based on available data, the classification criteria for Specific Target Organ Toxicity - Single Exposure are not met for this mixture (< 1.0% ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 1 or 2 and < 20% summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3).

Specific Target Organ Toxicity - Repeated Exposure: Based on available data, the classification criteria for Specific Target Organ Toxicity - Repeated Exposure are not met for this mixture (< 1.0% ingredients classified as Specific Target Organ Toxicity - Repeated Exposure, category 1 or 2).

Aspiration Hazard: Based on available data, the classification criteria for Aspiration Hazard are not met for this mixture (< 10% ingredients classified as an Aspiration Hazard, category 1 and/or mixture viscosity > 20.5 mm²/s at 40 °C).

12. ECOLOGICAL INFORMATION

Environmental Data: No data available.

Ecotoxicological Information: No data available.

Bioaccumulation/Accumulation: No data available.

Distribution: No data available.

Aquatic Toxicity (Acute): No data available.

Chemical Fate Information: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal. Do not discharge substance/product into sewer system.

Product Disposal: When container is empty, press button to release all pressure, then dispose of container and unused contents in accordance with Local, Provincial/State and Federal regulations.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name : AEROSOLS

Primary Hazard Class/Division: 2.1

UN/NA Number : 1950

Packing Group : N/A

Label : Class 2.1, Flammable Gases

Other Shipping Information:

With an inner packaging < 1.0 L, this product may be shipped as a Limited Quantity as per DOT 173.306.

Vessel (IMO/IMDG)

Shipping Name : AEROSOLS

UN/NA Number : 1950

Primary Hazard Class/Division: 2.1

Packing Group : N/A

Label : Class 2.1, Flammable Gases

Note: With an inner packaging < 1.0 L, this product may be shipped as a Limited Quantity.

Canadian Transportation of Dangerous Goods Regulations

Shipping Name : AEROSOLS

UN/NA Number : 1950

Primary Hazard Class/Division: 2.1

Packing Group : N/A

Label : Class 2.1, Flammable Gases

TDG Note:

With an inner packaging < 1.0 L, this component may be shipped as a Limited Quantity as per TDG Section 1.17.

15. REGULATORY INFORMATION

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 HEALTH HAZARDS: Eye Irritation

311/312 Physical Hazards: Flammable Aerosols, Gases Under Pressure

EPCRA Section 313 Toxic Chemicals

Chemical Name	Wt.%	CAS number
2-butoxyethanol	3.6 - 3.9	111-76-2
Isopropyl alcohol	3.6 - 3.9	67-63-0

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status:

This product contains no listed extremely hazardous substances that are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substances and Reportable Quantities (RQ)

CERCLA Status:

This product contains no CERCLA listed hazardous substances.

Chemical Name	Wt.%	RQ
Ammonium hydroxide	0.21 - 0.27	1,000

TSCA (The Toxic Substances Control Act)

TSCA Status:

All components are included or are otherwise exempt from inclusion on this inventory.

CAA 112(b) - Hazardous Air Pollutants

CAA 112(r) - List of Substances for Accidental Release Prevention:

This product contains no chemicals subject to CAA 112(b).

This product contains the following chemicals subject to CAA 112(r).

Name	CAS No.	Threshold Qty (TQ)
Propane	74-98-6	10,000
Butane	75-28-5	10,000

California Proposition 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

OSHA Hazard Communication Standard (29 CFR 1910.1200):

OSHA Status: Hazardous Product (See Section 2 for details).

This product has been classified in accordance with the hazard criteria of the USA OSHA Hazard Communication Standard (29CFR 1910.1200) and the Safety Data Sheet contains all the information required by the OSHA Hazard Communication Standard (HazCom 2012).

CANADA

WHMIS Hazard Symbol and Classification

See Section 2 for details.

WHMIS Regulatory Status:

This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

WHMIS Classification:

WHMIS 2015 (Canada) Status: Hazardous Product (See Section 2 for details).

CEPA - National Pollutant Release Inventory (NPRI):

Name	CAS No.	NPRI Part No.
2-butoxyethanol	111-76-2	1A, 5 (VOC)
Isopropanol	67-63-0	1A, 5 (VOC)
Propane	74-98-6	5 (VOC)
Butane (all isomers)	75-28-5	5 (VOC)

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):

All components are included or are otherwise exempt from inclusion on this inventory.

Comments VOC Content -- See section 9.

16. OTHER INFORMATION

Reason for Issue: The Safety Data Sheet was updated.

Approved By: Jim Gordon **Title:** R&D Chemist

Prepared By : Regulatory Compliance

Date Revised: 04/25/2019

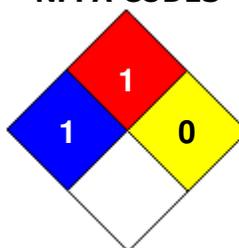
Information Contact: 905-670-5411

Revision Summary: This MSDS replaces the 03/22/2019 MSDS. Revised: **Section 14:** DOT (Department of Transportation) (Primary Hazard Class/Division, UN/NA Number Label , Other Shipping Information), Label , Primary Hazard Class/Division, UN/NA Number , Shipping Name , Vessel (IMO/IMDG) (, Note), TDG Note. **Section 15:** 311/312 Physical Hazards.

HMIS RATING

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA CODES



NFPA 30 / 30B Storage Classification: Level 1 Aerosol

Manufacturer Supplemental Notes: None

Data Sources: Not Available

Additional SDS Information:

- N/AV Not Available
- N/AP Not Applicable
- ND Not yet determined
- ACGIH American Conference of Governmental Industrial Hygienists
- CAA The Clean Air Act
- CCCR The Consumer Chemicals and Containers Regulations
- CEPA The Canadian Environmental Protection Act
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

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EPCRA The Emergency Planning and Community Right-To-Know Act
IARC International Agency for Research on Cancer
MSHA Mine Safety and Health Administration
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA The Occupational Safety and Health Administration
SARA The Superfund Amendments and Reauthorization Act
WHMIS Workplace Hazardous Materials Information System

General Statements: None

Comments: None

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