

Safety Data Sheet

Glass Cleaner

SECTION 1. IDENTIFICATION

Product Identifier Glass Cleaner
Part number TNDS8009

Product Family Aqueous solution

Restrictions on Use Cleaner.

None known.

Manufacturer Shrader Canada Limited, 830 Progress Court, Oakville, ON, L6L 6K1, +1.905.847.0222,

www.shradercanada.com

Emergency Phone No. CANUTEC, +1.613.996.6666, Operation hours: 24/7

SECTION 2. HAZARD IDENTIFICATION

Classification

Gas under pressure - Compressed gas; Skin irritation - Category 2; Eye irritation - Category 2A; Specific target organ toxicity (single exposure) - Category 3

Label Elements



Warning

Contains gas under pressure; may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Avoid breathing mist, vapours, spray.

Wash hands and skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wear eye protection/face protection.

IF ON SKIN: Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Product Identifier: Glass Cleaner

SDS No.: TNDS8009 Page 01 of 07

If eye irritation persists: Get medical advice/attention. Call a POISON CENTRE or doctor if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Acetone	67-64-1	7-13	
Petroleum gases, liquefied	68476-85-7	5-10	
Isopropanol	67-63-0	3-7	
2-Butoxyethanol	111-76-2	1-5	
Morpholine	110-91-8	0.1-1.0	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice or attention.

Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Drink two glasses of water, seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable Extinguishing Media

Do not use a direct stream of water.

Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation. Does not burn.

In a fire, the following hazardous materials may be generated: carbon oxides, hydrocarbons.

Special Protective Equipment and Precautions for Fire-fighters

Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

Product Identifier: Glass Cleaner

SDS No.: TNDS8009 Page 02 of 07

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Containers of this material may contain hazardous residues when "emptied".

Conditions for Safe Storage

Store in an area that is: cool, ventilated, dry.

Keep from freezing. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACG	ACGIH® TLV®		OSHA PEL	
Chemical Name	TWA	STEL [C]	TWA	Ceiling	
Morpholine	20 ppm A4	Not established	20 ppm Skin	Not established	
2-Butoxyethanol	20 ppm A3	Not established	240 mg/m3	Not established	
Isopropanol	200 ppm A4	400 ppm	980000 mg/m3	Not established	
Acetone	500 ppm A4	750 ppm A4	1000 ppm	Not established	

Appropriate Engineering Controls

Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: nitrile rubber, neoprene rubber.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance Clear colourless Aerosol.

Odour mild

Odour Threshold Not available

pH 9.9

Product Identifier: Glass Cleaner

SDS No.: TNDS8009 Page 03 of 07

Melting Point/Freezing Point Not applicable (melting)

Initial Boiling Point/RangeNot applicableFlash PointNot applicableEvaporation RateNot applicable

Flammability (solid, gas) Not applicable (liquid).

Upper/Lower Flammability or

Explosive Limit

Not applicable (upper); Not applicable (lower)

Vapour PressureNot availableVapour Density (air = 1)Not availableRelative Density (water = 1)0.983 at 15 °CSolubilitySoluble in waterPartition Coefficient,Not available

n-Octanol/Water (Log Kow)

Auto-ignition TemperatureNot applicableDecomposition TemperatureNot applicable

Viscosity < 14 centistokes at 40°C (kinematic)

Other Information

VOC % Not available
Flame projection Not applicable
NFPA Classification Aerosol, Level 1

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Stable at ambient temperatures and pressures.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Elevated pressure. High temperatures.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Carbon oxides. And other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation:

Skin contact;

Eye contact;

Ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Morpholine	2250 ppm (rat) (4-hour exposure)	1050 mg/kg (rat)	5000 mg/kg (rabbit)

Page 04 of 07

Product Identifier: Glass Cleaner

SDS No.: TNDS8009

2-Butoxyethanol	450 ppm (female rat) (4-hour exposure)	530 mg/kg (female rat)	400-500 mg/kg (rabbit)
Isopropanol	17000 ppm (rat) (4-hour exposure)	4720 mg/kg (male rat)	12890 mg/kg (rabbit)
Acetone	30000 ppm (male rat) (4-hour exposure)	5800 mg/kg (female rat)	> 15800 mg/kg (rabbit)

Skin Corrosion/Irritation

There is limited evidence of mild irritation.

Serious Eye Damage/Irritation

Moderate to severe irritant.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No hazard under normal conditions of use.

Inhalation of mist or vapours formed at high temperatures or on mixing may cause respiratory irritation. At high concentrations symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Absorption

No information was located.

Ingestion

Ingestion of small amounts during normal handling is not likely to cause injury.

If large amounts are swallowed can cause effects as described for inhalation.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

No information was located for respiratory sensitization.

No information was located for skin sensitization.

Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Morpholine	A4	Group 3	Not Listed	Not Listed
2-Butoxyethanol	A3	Group 3	Not Listed	Not Listed
Isopropanol	A4	Group 3	Not Listed	Not Listed
Petroleum gases, liquefied	Not Listed	Not Listed	Not Listed	Not Listed

Not a carcinogen.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. A4 = Not classifiable as a human carcinogen.

IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans.

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product Identifier: Glass Cleaner

SDS No.: TNDS8009 Page 05 of 07

Contents under pressure, do not puncture, incinerate or expose to heat when empty. Dispose of in accordance with municipal, provincial/state or federal regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1950	Aerosols	2.2	
IMDG (Marine)	UN1950	Aerosols	2.2	
IATA (Air)	UN1950	Aerosols, non-flammable	2.2	

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Emergency Response 126 EmS F-D, S-U

Guide No.

Other Information ICAO/IATA PI Y203/203

Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are

met.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

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

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

(2-Butoxyethanol) Part 1A. (Methanol) Part 1A. (Isopropanol) Part 5.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

CERCLA. (Acetone)

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 313:

California Proposition 65: Not applicable.

Massachusetts Right To Know: Not applicable.

New Jersey Right To Know. (Morpholine). (2-Butoxyethanol). (Isopropanol). (Acetone). (Petroleum gases, liquefied)

Pennsylvania Right To Know. (Morpholine). (2-Butoxyethanol). (Isopropanol). (Acetone). (Petroleum gases,

liquefied)

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 0 Flammability - 0 Instability - 0

SDS Prepared By Regulatory Compliance

Phone No. 905.847.0222

Date of Preparation September 30, 2015 **Date of Last Revision** March 07, 2016

Revision Indicators The following SDS content was changed on March 07, 2016:

Product Identifier: Glass Cleaner

SDS No.: TNDS8009 Page 06 of 07

SECTION 2. HAZARD IDENTIFICATION; Label Elements.

SECTION 16. OTHER INFORMATION; References.

Key to Abbreviations ACGIH® = American Conference of Governmental Hygienists

CANUTEC = Canadian Transport Emergency Centre

CAS = Chemical Abstract Service

CCOHS = Canadian Centre for Occupational Health & Safety

CNS = Central nervous system

GESTIS = GESTIS Substance Database
HSDB® = Hazardous Substances Data Bank

IARC = International Agency for Research on Cancer ICAO = International Civil Aviation Organization

IMDG = International Maritime Dangerous Goods Code

LC = Lethal concentration

LC = Lethal dose

NFPA = National Fire Protection Association

NTP = National Toxicology Program

OSHA = US Occupational Safety and Health Administration

PPM = Parts per million

RTECS® = Registry of Toxic Effects of Chemical Substances

STEL = Short term exposure limit

TDG = Transportation of Dangerous Goods Regulations (Canada)

TWA = Time weighted average

References Material safety data sheet from manufacturer.

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for

Occupational Health and Safety (CCOHS).

Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc.

Available from Canadian Centre for Occupational Health and Safety (CCOHS). ECHA - European Chemical Agency, Classification and Labelling Inventory

GESTIS Substance Database

OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

DisclaimerThe information contained herein is offered only as a guide to the use and handling of this specific material and has been prepared in good faith. It is not intended to be all-inclusive, and

the manner and conditions of use and handling may involve other and additional

considerations. No warranty of any kind is given or implied. Shrader Canada Limited will not be liable for any damages, losses, injuries or consequential damages which may result from the

use of or reliance on any information contained herein.

Product Identifier: Glass Cleaner

SDS No.: TNDS8009 Page 07 of 07

