MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 1000000059

Material name 19 OZ CANADIAN SW GLASS CLEANER LT 12PK

Company information Sprayway, Inc.

1005 S. Westgate Drive

Addison, IL 60101 United States

Company phone General Assistance 1-630-628-3000

Emergency telephone US 1-866-836-8855 **Emergency telephone outside** 1-952-852-4646

US

Version # 01

16-Jun-2017 **Expiry Date** Product use Glass Cleaner

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE.

Aerosol. Pressurized container may explode when exposed to heat or flame. Harmful if inhaled.

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Contact with eyes may cause irritation. Health injuries are not known or expected under normal

use.

Skin May be harmful if absorbed through skin.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into

the body by ingestion.

Chronic effects May be harmful if absorbed through skin.

Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Butane	106-97-8	1 - 5
Ethanol	64-17-5	1 - 5
Ethylene Glycol Monobutyl Ether	111-76-2	1 - 5
Propane	74-98-6	1 - 5
Other components below reportable levels		60 - 100

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention

immediately.

Skin contact Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water.

Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected

skin. Wash clothing separately before reuse.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if

> victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control

center immediately.

Product name: 19 OZ CANADIAN SW GLASS CLEANER LT 12PK MSDS CANADA 1/8 Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth

> thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask

equipped with a one-way valve or other proper respiratory medical device.

Notes to physician

Treat symptomatically. Symptoms may be delayed.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire Fighting Measures

Flammable properties

Heat may cause the containers to explode. Ruptured cylinders may rocket.

Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising from the chemical

Protective equipment for

firefighters

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters should wear full protective clothing including self contained breathing apparatus. Structural firefighters protective clothing will only provide limited protection. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Do not direct water at source of leak or safety devices as icing may occur. Containers should be cooled with water to prevent vapor pressure build up. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Explosion data

Sensitivity to static

discharge

Sensitivity to mechanical

impact

Not available.

Not available.

6. Accidental Release Measures

Personal precautions

Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the MSDS for Personal Protective Equipment. For personal protection, see section 8 of the MSDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Move the cylinder to a safe and open area if the leak is irreparable. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Ventilate the area. Should not be released into the environment. Stop the flow of material, if this is without risk. Isolate area until gas has dispersed. Following product recovery, flush area with water. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

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. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Do not use in areas without adequate ventilation. Observe good industrial hygiene practices. Wash thoroughly after handling.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep container dry. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the MSDS). Level 1 Aerosol (NFPA 30B)

8. Exposure Controls / Personal Protection

ccupational exposure limits		
ACGIH Biological Exposure Indices Components	Туре	Value
2-Butoxyethanol (CAS 111-76-2)	BEI	200 mg/g
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Canada. Alberta OELs (Occupational Heal	th & Safety Code, Schedule 1, Table	e 2)
Components	Туре	Value
Butane (CAS 106-97-8)	TWA	1000 ppm
Ethyl Alcohol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	97 mg/m3
		20 ppm
Propane (CAS 74-98-6)	TWA	1000 ppm
Canada. British Columbia OELs. (Occupate Safety Regulation 296/97, as amended)	ional Exposure Limits for Chemica	Substances, Occupational Health and
Components	Туре	Value
Butane (CAS 106-97-8)	STEL	750 ppm
	TWA	600 ppm
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Canada. Ontario OELs. (Control of Exposi Components	-	s) Value
Components	Туре	
Butane (CAS 106-97-8)	TWA	800 ppm
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Canada. Quebec OELs. (Ministry of Labor Components	- Regulation Respecting the Quality Type	y of the Work Environment) Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3
- (/		800 ppm
Ethyl Alcohol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	97 mg/m3
•		20 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3
,		1000 ppm
US. OSHA Table Z-1 Limits for Air Contam Components	iinants (29 CFR 1910.1000) Type	Value
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3

Product name: 19 OZ CANADIAN SW GLASS CLEANER LT 12PK

Product #: 1000000059 Version #: 01 Issue date: 06-16-2014

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Value Components **Type** 50 ppm PEL 1800 mg/m3 Propane (CAS 74-98-6) 1000 ppm

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection Face-shield.

Skin protection Wear chemical protective equipment that is specifically recommended by the manufacturer.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn. If permissible levels are exceeded use

NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Appearance Clear.

Boiling point 212 °F (100 °C) estimated Color Colorless. Pale yellow

-156.00 °F (-104.44 °C) Propellant estimated Flash point

Form Aerosol. Not available. Melting point/Freezing point

Odor Butyl

Not available. **Odor threshold**

9.5 - 10.5 estimated Ηq

Physical state Gas.

80 - 100 psig @70F estimated Vapor pressure

Solubility (water) Not available. Specific gravity 0.97 estimated Not available. Flammability limits in air,

upper, % by volume

Flammability limits in air,

lower, % by volume

Not available.

Other data

Aerosol spray enclosed space

> 2.52 g/cm3 Tested **Deflagration density**

Aerosol spray ignition

distance

< 15 cm Tested estimated

Heat of combustion 3.34 kJ/g estimated

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition.

Conditions to avoid Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the

flash point. Contact with incompatible materials. Fire or intense heat may cause violent rupture of

packages.

Hazardous decomposition

products

No hazardous decomposition products are known.

Possibility of hazardous

No dangerous reaction known under conditions of normal use. Hazardous polymerization does not

reactions occur.

Product name: 19 OZ CANADIAN SW GLASS CLEANER LT 12PK MSDS CANADA 4/8

11. Toxicological Information

Toxicological data

Product	Species	Test Results
19 OZ CANADIAN SW G	GLASS CLEANER LT 12PK (CAS Mixture)	
Acute		
Dermal		
LD50	Rabbit	7674.2803 mg/kg, estimated
Inhalation		
LC50	Mouse	41337.3867 mg/l, 2 Hours, estimated
		24423.8574 mg/l, 7 Hours, estimated
		1166.5366 mg/l, 4 Hours, estimated
	Rat	77781.5078 mg/l, 15 Minutes, estimated
		15701.0518 mg/l, 4 Hours, estimated
		75.2338 mg/l/4h, estimated
Oral		
LD50	Dog	164.5116 g/kg, estimated
	Guinea pig	33.457 g/kg, estimated
	Mouse	41.8347 g/kg, estimated
	Rabbit	11.1535 g/kg, estimated
	Rat	16398.877 mg/kg, estimated
Other		. socolo:
LD50	Mouse	16262.7314 mg/kg, estimated
	Rabbit	9769.543 mg/kg, estimated
	Rat	9292.3105 mg/kg, estimated
Components	Species	Test Results
Butane (CAS 106-97-8)	Opecies	rest ixesuits
Acute		
Inhalation		
LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l, 4 Hours
Ethanol (CAS 64-17-5)		3 ,
Acute		
Inhalation		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 mg/l, 10 Hours
Oral		5 .
LD50	Dog	5.5 g/kg
	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	6.2 g/kg
Other	Nat	0.2 g/kg
LD50	Mouse	933 mg/kg
LDOU		
Ethylono Obrest Marrat	Rat	1440 mg/kg
•	tyl Ether (CAS 111-76-2)	
Acute		
<i>Dermal</i> LD50	Rabbit	220 mg/kg
Inhalation	Nappit	220 mg/ng
LC50	Mouse	700 mg/l, 7 Hours
2000	Modoc	roo mgn, r riouro

Components	Species	Test Results
	Rat	450 mg/l, 4 Hours
		2.21 mg/l/4h
Oral		
LD50	Guinea pig	1.2 g/kg
	Mouse	1.2 g/kg
	Rabbit	0.32 g/kg
	Rat	470 mg/kg
Other		
LD50	Mouse	1130 mg/kg
	Rabbit	280 mg/kg
	Rat	340 mg/kg
Propane (CAS 74-98-6)		
Acute		
Inhalation		
LC50	Rat	> 1442.847 mg/l, 15 Minutes
		658 mg/l/4h

^{*} Estimates for product may be based on additional component data not shown.

Acute effects Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Local effects Harmful by inhalation.

Chronic effects May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Carcinogenicity

ACGIH Carcinogens

Ethanol (CAS 64-17-5)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene Glycol Monobutyl Ether (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Reproductive effectsThis product is not expected to cause reproductive or developmental effects.

Symptoms and target organs Direct contact with eyes may cause temporary irritation.

12. Ecological Information

Ecotoxicological data

Product		Species	Test Results
19 OZ CANADIAN SW GL	ASS CLEANER LT	12PK (CAS Mixture)	
Crustacea	EC50	Daphnia	53501.5 mg/L, 48 Hours, estimated
Fish	LC50	Fish	42462.0469 mg/l, 96 hours, estimated
Components		Species	Test Results
Ethanol (CAS 64-17-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7700 - 11200 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales prom	nelas) > 100.1 mg/l, 96 hours

Components **Species Test Results**

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

Crustacea EC50 Daphnia 1819 mg/L, 48 Hours

Aquatic

LC50 Fish Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Harmful to aquatic life with long lasting effects. **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. **Environmental effects**

Harmful to aquatic life with long lasting effects.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulation / No data available.

Accumulation

Partition coefficient

Butane 2.89 Ethanol -0.31Ethylene Glycol Monobutyl Ether 0.83 2.36 Propane

13. Disposal Considerations

Disposal instructions Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain

into sewers/water supplies. Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

TDG

UN number UN1950

UN proper shipping name AEROSOLS, non-flammable

Hazard class 2.2

Packing group If <1L: Limited Quantity

Marine pollutant D **Special provisions** 80

IATA

UN number UN1950

UN proper shipping name Aerosols, non-flammable

Transport hazard class(es) 2.2 Labels required 2.2 **ERG** code 2L

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

Packaging Exceptions LTD QTY

IMDG

UN number UN1950 **AEROSOLS UN** proper shipping name

Transport hazard class(es) 2.2 Labels required None

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

Transport in bulk according Not applicable. to Annex II of MARPOL

73/78 and the IBC Code

LTD QTY **Packaging Exceptions**

IATA; IMDG; TDG



15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification A - Compressed Gas

D2B - Other Toxic Effects-TOXIC

WHMIS labeling





Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

16. Other Information

United States & Puerto Rico

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Yes

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product Review Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Ecological Information: Environmental effects

Transport Information: Product Shipping Name/Packing Group

Regulatory Information: Canada

GHS: Classification

MSDS CANADA 8/8 Product #: 1000000059 Version #: 01 Issue date: 06-16-2014

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).