# **Sprayway**®

#### MATERIAL SAFETY DATA SHEET

#### 1. Product and Company Identification

Product number SW015DIN

Material name DISINFECTANT SPRAY FOR HEALTH CARE USE

Revision date 06-16-2014

**Company information** SPRAYWAY INC.

1005 SOUTH WESTGATE DR ADDISON, IL 60101 United States

Company phone

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

US

Version # 02

Supersedes date06-13-2014Expiry Date12-Jun-2017Product useDisinfectant

#### 2. Hazards Identification

**Emergency overview** Flammable aerosol. CONTENTS UNDER PRESSURE.

Pressurized container may explode when exposed to heat or flame. Yields a flame projection at full

valve opening or a flashback at any degree of valve opening.

Will be easily ignited by heat, spark or flames.

Potential health effects

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

**Eyes** Contact with eyes may cause irritation.

**Skin** Health injuries are not known or expected under normal use.

**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.

Target organs Blood. Central nervous system. Liver. Lungs. Respiratory system.

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

# 3. Composition / Information on Ingredients

Components	CAS#	Percent
Ethanol	64-17-5	30 - 60
Butane	106-97-8	10 - 30
Propane	74-98-6	5 - 10
Other components below reportable levels		15 - 40

#### 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: Disinfectant Spray for Hospital Use

MSDS CANADA

Product #: 0881, 1000006974, 1000006973, 1000007011, 1000006976, 1000007214, 1000007838 Version #: 02 Revision date: 06-16

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth Ingestion

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

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

Flammable by WHMIS criteria. Heat may cause the containers to explode. Ruptured cylinders may rocket. Vapors may travel considerable distance to a source of ignition and flash back.

Extinguishing media

Suitable extinguishing

media

Powder. Alcohol resistant foam. Water. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire.

**Protection of firefighters** 

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Protective equipment for

firefighters

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. Do not direct water at source of leak or safety devices as icing may occur. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Specific methods

Cool containers exposed to flames with water until well after the fire is out.

**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. Pay attention to flashback. 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. 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.

**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. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of low 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.

Product name: Disinfectant Spray for Hospital Use

#### 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. Wash thoroughly after handling.

**Storage** 

Contents under pressure. The pressure in sealed containers can increase under the influence of heat. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. 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 2 Aerosol.

# 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

110	Threshold	l imit Valua

Components	Туре	Value
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
Canada. Alberta OELs (Occupation	nal Health & Safety Code, Sch	nedule 1, Table 2)
Components	Туре	Value
Butane (CAS 106-97-8)	TWA	1000 ppm
Ethyl Alcohol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
Propane (CAS 74-98-6)	TWA	1000 ppm
Canada. British Columbia OELs. (C Safety Regulation 296/97, as amen		s for Chemical 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
Canada. Ontario OELs. (Control of	Exposure to Biological or Ch	nemical Agents)
Components	Туре	Value
Butane (CAS 106-97-8)	TWA	800 ppm
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
Canada. Quebec OELs. (Ministry o	f Labor - Regulation Respect	ing the Quality of the Work Environment)
Components	Type	Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3
		800 ppm
Ethyl Alcohol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3
		1000 ppm
US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.	• •
	Contaminants (29 CFR 1910. <sup>,</sup> Type	• •
US. OSHA Table Z-1 Limits for Air Components Ethyl Alcohol (CAS 64-17-5)	•	1000)
Components	Type	1000) Value
Components	Type	1000) Value 1900 mg/m3
Components Ethyl Alcohol (CAS 64-17-5)	Type `	1000) Value  1900 mg/m3 1000 ppm
Components Ethyl Alcohol (CAS 64-17-5) Propane (CAS 74-98-6)	Type `	1000)  Value  1900 mg/m3 1000 ppm 1800 mg/m3 1000 ppm

Product name: Disinfectant Spray for Hospital Use

Face-shield.

Eye / face protection

Skin protection

MSDS CANADA

Product #: 0881, 1000006974, 1000006973, 1000007011, 1000006976, 1000007214, 1000007838 Version #: 02 Revision date: 06-16

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

air-supplied respirator.

# 9. Physical & Chemical Properties

Appearance Not available.

**Boiling point** 140.71 °F (60.39 °C) estimated

Color Not available.

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

Form Aerosol.

Melting point/Freezing point Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Physical state Gas.

Vapor pressure 75 - 85 psig @70F estimated

Solubility (water)

Specific gravity

Not available.

0.79 estimated

11.4 % estimated upper, % by volume

Flammability limits in air, lower, % by volume

2.4 % estimated

# 10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition.

Conditions to avoid Heat, flames and sparks. Aerosol containers are unstable at temperatures above 49°C. Avoid

temperatures exceeding the flash point.

Hazardous decomposition

products

Not available.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

#### 11. Toxicological Information

Toxicological data		
Components	Species	Test Results
Butane (CAS 106-97-8)		
Acute		
Inhalation		
LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l, 4 Hours
Ethanol (CAS 64-17-5)		
Acute		
Inhalation		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 mg/l, 10 Hours
Oral		
LD50	Dog	5.5 g/kg
	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	6.2 g/kg
Other		
LD50	Mouse	933 mg/kg

Product name: Disinfectant Spray for Hospital Use

MSDS CANADA

Components	Species	Test Results
	Rat	1440 mg/kg
Propane (CAS 74-98-6)		
Acute		
Inhalation		

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Rat

#### Carcinogenicity

LC50

#### **ACGIH Carcinogens**

Ethanol (CAS 64-17-5)

A3 Confirmed animal carcinogen with unknown relevance to

658 mg/l/4h

> 1442.847 mg/l, 15 Minutes

humans.

# 12. Ecological Information

#### Ecotoxicological data

Product		Species	Test Results
Disinfectant Spray for Hosp	pital Use (CAS Mix	ture)	
Algae	IC50	Algae	472.2222 mg/L, 72 Hours, estimated
Crustacea	EC50	Daphnia	890.5942 mg/L, 48 Hours, estimated
Fish	LC50	Fish	1684.6193 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 pron	melas) > 100.1 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Ecotoxicity** Contains a substance which causes risk of hazardous effects to the environment.

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

Persistence and degradability Not available.

**Partition coefficient** 

 Butane
 2.89

 Ethanol
 -0.31

 Propane
 2.36

#### 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, flammable

Hazard class 2.1 Special provisions 80

If <1L: Limited Quantity

Packaging exceptions IATA

UN number UN1950

Aerosols, flammable **UN** proper shipping name

Transport hazard class(es) 2.1 2.1 Labels required 10L **ERG** code

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

**Packaging Exceptions** LTD QTY

**IMDG** 

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

Transport hazard class(es) 2.1 Labels required None F-D. S-U **EmS** 

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

**Packaging Exceptions** LTD QTY

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

B5 - Flammable Aerosols

D2A - Other Toxic Effects-VERY TOXIC 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)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Product name: Disinfectant Spray for Hospital Use

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)
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).

#### 16. Other Information

#### **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.

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

Product and Company Identification: Alternate Trade Names

Product name: Disinfectant Spray for Hospital Use MSDS CANADA