

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number

018

Product name

Disinfectant Spray for Health Care Use

Effective date

18-Mar-2008

Company information

Claire Manufacturing

500 Vista Ave.

Addison, IL 60101 United States

Company phone

General Assistance 630-543-7600

Emergency telephone US
Emergency telephone outside US

800-424-9300

Emergency

703-527-3887

Version #

07

Supersedes date

08-Feb-2008

2. Hazards Identification

Emergency overview

FLAMMABLE

CONTENTS UNDER PRESSURE.

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

Harmful in contact with eyes. Can cause adverse reproductive effects. Prolonged

exposure may cause chronic effects.

OSHA regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard

Communication).

Potential health effects

Eyes

Contact may irritate or burn eyes. Eye contact may result in corneal injury.

Skin

Prolonged or repeated contact can result in defatting and drying of the skin which may

result in skin irritation and dermatitis (rash).

Inhalation

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

Prolonged inhalation may be harmful.

Ingestion

Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause delayed lung damage.

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Target organs Chronic effects

Blood. Central nervous system. Gastrointestinal tract. Liver. Respiratory system. Unconsciousness. Conjunctiva. Sterility. Liver injury may occur. May cause central

nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage. Can cause adverse reproductive effects. Pregnant women or women of

child-bearing age should not be exposed to this product.

Signs and symptoms

Discomfort in the chest. Corneal damage. Narcosis. Cyanosis. Liver enlargement. Jaundice. Conjunctivitis. Defatting of the skin. Irritation. Birth defects. Sterility.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Ethyl Alcohol	64-17-5	40 - 50
n-Butane	106-97-8	15 - 20
Propane	74-98-6	5 - 8
Methanol	67-56-1	3 - 5
Non-hazardous and other components below reportable levels	NII WALLES	20 - 40

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Get medical attention immediately.

Skin contact

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Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops or persists.

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Inhalation Ingestion

General advice

Move to fresh air. Call a physician if symptoms develop or persist.

Rinse mouth. Get medical attention immediately. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. 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.

Call a physician if symptoms develop or persist.

5. Fire Fighting Measures

Flammable properties

Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

Foam. Dry chemical. Carbon dioxide (CO2).

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

Protection of firefighters

Protective equipment and precautions for firefighters In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

6. Accidental Release Measures

Personal precautions

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel

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. Move the cylinder to a safe and open area if the leak is irreparable.

Methods for cleaning up

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

7. Handling and Storage

Level 2 Aerosol.

Handling

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure.

Storage

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and

flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep in an area equipped with sprinklers. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Exposure limits

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Components	CAS#	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Methanol	67-56-1	200 ppm	250 ppm	Not established
OSHA				
Components	CAS#	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Methanol	67-56-1	200 ppm	Not established	Not established

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Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection Wear chemical goggles. Skin protection Protective gloves.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

General hygeine considerations

When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Handle in

accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Compressed liquefied gas.

Color Clear. Odor Alcoholic. Physical state Gas. Form Aerosol. Flash back No

Pressure 55 - 65 psig @ 70F

Solubility Partially

Flash point -156 °F (-104.4 °C)

Boiling point 136.4 °F (57.8 °C) estimated

Specific gravity 0.758 pH 9.56 - 10.56

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition. Stable at normal conditions.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Isocyanates.

Hazardous decomposition products May include oxides of nitrogen.

11. Toxicological Information

Acute effects Acute LC50: 84 mg/l/4h estimated, Rat, Inhalation Sensitization Not expected to be hazardous by OSHA criteria.

Local effects Contact may irritate or burn eyes. Liver toxicity. Blood disorder may occur after ingestion.

Components of the product may be absorbed into the body through the skin.

Chronic effects Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous

system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury.

Prolonged exposure may cause chronic effects.

Blood disorder may occur after prolonged inhalation. Blood disorder may occur after Subchronic effects

prolonged skin contact.

Neurological effects

Hazardous by OSHA criteria. Mutagenicity Not expected to be hazardous by OSHA criteria.

Hazardous by OSHA criteria. Possible reproductive hazard. Can cause adverse Reproductive effects

reproductive effects - such as birth defects, miscarriages, and infertility.

Teratogenicity Not expected to be hazardous by OSHA criteria.

Epidemiology Hazardous by OSHA criteria. **Further information** Symptoms may be delayed.

12. Ecological Information

Ecotoxicity LC50 1750 mg/L estimated, Fish, 96.00 Hours,

EC50 17764 mg/L estimated, Daphnia, 48.00 Hours,

Components of this product have been identified as having potential environmental

concerns.

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F Consult authorities before disposal. Contents under pressure. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D0O1. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name

Consumer commodity

Hazard class

Packaging bulk

ORM-D

Subsidiary hazard class

None

Additional information:

Packaging exceptions Packaging non bulk 156, 306

156, 306 None

IMDG

Basic shipping requirements:

Proper shipping name

AEROSOLS, flammable

Hazard class UN number 2.1 1950

Additional information:

Packaging exceptions

LTD QTY

Item

5F None

Transport Category

Labels required

2

IATA

Basic shipping requirements:

Proper shipping name

Aerosols, flammable

Hazard class UN number 2.1 1950

Additional information:

Packaging exceptions

LTD QTY

Labels required

None





15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Methanol

67-56-1

1.0 % de minimis concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical CERCLA (Superfund) reportable quantity

Methanol: 5000.0000
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

Section 302 extremely

hazardous substance

У

Section 311 hazardous chemical Yes

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Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

E	thyl	Alcohol

64-17-5

Present

Methanol n-Butane 67-56-1

Environmental hazard

Propane

106-97-8 74-98-6

Present Present

16. Other Information

HMIS® ratings

Health: 1°

Flammability: 4 Physical hazard: 0

Prepared by

Regulatory Compliance

Disclaimer

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.

Issue date

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