

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

081-002 Product number

**Product name Disinfectant Spray for Health Care Use** 

Effective date 30-Mar-2012

Company information Claire Manufacturing Co.

1005 S. Westgate Drive

Addison, IL 60101 United States

General Assistance 1-630-543-7600 Company phone

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

Version # 01

Disinfectant Product use

#### 2. Hazards Identification

Aerosol, FLAMMABLE **Emergency overview** 

CONTENTS UNDER PRESSURE.

Will be easily ignited by heat, spark or flames. Contact with eyes may cause irritation.

Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Eye contact. Skin contact. Ingestion. **Eyes** Moderately irritating to the eyes.

Skin Harmful if absorbed through the skin. Repeated or prolonged skin contact may cause

allergic reactions with susceptible persons.

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

Prolonged inhalation may be harmful.

Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Ingestion

Components of the product may be absorbed into the body by ingestion.

**Target organs** Central nervous system. Lungs.

**Chronic effects** Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). May cause

central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May

cause delayed lung injury.

Discomfort in the chest. Cyanosis (blue tissue condition, nails, lips, and/or skin). Signs and symptoms

Narcosis. Coughing. Defatting of the skin. Skin irritation. Corneal damage.

### 3. Composition / Information on Ingredients

Components	CAS#	Percent
Ethyl Alcohol	64-17-5	40 - 50
1,1-Difluoroethane	75-37-6	20 - 30
Methanol	67-56-1	1 - 3
Non-hazardous and other components below reportable levels	20 - 40	

# 4. First Aid Measures

First aid procedures

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

lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control

Center immediately.

Take off immediately all contaminated clothing. Wash off immediately with plenty of Skin contact

water for at least 15 minutes. Get medical attention if irritation develops and persists.

Inhalation Move to fresh air. Get medical attention if symptoms persist.

Ingestion In the unlikely event of swallowing contact a physician or poison control center.

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### 5. Fire Fighting Measures

Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may Flammable properties

cause fire or explosion hazard.

**Extinguishing media** 

Suitable extinguishing media

**Protection of firefighters** 

Protective equipment and precautions for firefighters Foam. Dry chemical. Carbon dioxide (CO2).

In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

#### 6. Accidental Release Measures

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the Methods for containment

leak is irreparable. Stop the flow of material, if this is without risk.

Use a non-combustible material like vermiculite, sand or earth to soak up the product Methods for cleaning up

and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

# 7. Handling and Storage

Pressurized container: Do not pierce or burn, even after use. Do not smoke while using Handling

or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid breathing

dust/fume/gas/mist/vapors/spray. Avoid contact with skin.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed Storage containers can increase under the influence of heat. Do not handle or store near an open

flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Keep out of the reach of children. Keep away from food, drink and animal

feedingstuffs. Level 2 Aerosol.

### 8. Exposure Controls / Personal Protection

#### **Exposure limits**

**ACGIH** 

Components	CAS#	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	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
Methanol	67-56-1	200 ppm	Not established	Not established

#### Personal protective equipment

Eye / face protection Do not get in eyes. Chemical goggles are recommended.

Chemical resistant gloves. Skin protection

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

appropriate certified respirators.

### 9. Physical & Chemical Properties

**Appearance** Compressed liquefied gas. **Boiling point** 136.4 °F (57.8 °C) estimated

colorless Color

1.133 g/cm3 estimated Density Flammability (HOC) 15.6 kJ/g estimated

Yes Flash back

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Flash point -58 °F (-50 °C) Propellant

Aerosol. **Form** Freezing point Not available Odor fruity alcoholic 9.5 - 10.5 pН Physical state Liquid.

**Pressure** 65 - 75 psig @ 70F

Solubility Partially 1.1331 Specific gravity

### 10. Chemical Stability & Reactivity Information

Stable at normal conditions. Chemical stability Conditions to avoid Heat, flames and sparks.

Hazardous decomposition products No hazardous decomposition products are known.

# 11. Toxicological Information

**Acute effects** Acute LC50: 84 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

1,1-Difluoroethane Inhalation LC50 Mouse 977 g/m3 2 h

64-17-5 Ethyl Alcohol Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

Methanol 67-56-1 Inhalation LC50 Rat 83.2 mg/L 4 h; Inhalation LC50 Rat 64000 ppm 4 h; Oral LD50

Rat 5628 mg/kg; Dermal LD50 Rabbit 15800 mg/kg

Sensitization Not expected to be hazardous by OSHA criteria.

Carcinogenicity

IARC - Group 1 (Carcinogenic to Humans)

Ethyl Alcohol Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in

alcoholic beverages)

**Teratogenicity** Animal experiments showed mutagenic and teratogenic effects.

### 12. Ecological Information

LC50 1730 mg/L estimated, Fish, 96.00 Hours, **Ecotoxicity** 

EC50 931 mg/L estimated, Daphnia, 48.00 Hours,

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

### 13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F

Contents under pressure. Dispose of this material and its container to hazardous or **Disposal instructions** 

special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

### 14. Transport Information

### **Department of Transportation (DOT) Requirements**

**Basic shipping requirements:** 

Aerosols Proper shipping name **Hazard class** 2.1 UN1950 **UN** number

Additional information:

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**Special provisions** 153, N82 LTD QTY Packaging exceptions Packaging non bulk None None Packaging bulk



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Further information Until 12/31/2013, the "Consumer Commodity - ORM-D" marking may still be used in

place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/13 and may be used now in place of the "Consumer Commodity ORM-D" marking but not

concurrently.

**IMDG** 

Basic shipping requirements:

Proper shipping name AEROSOLS

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptionsLTD QTYItem5FLabels requiredNoneTransport Category2



**IATA** 

**Basic shipping requirements:** 

Proper shipping name Aerosols, flammable

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptions LTD QTY
Labels required 2.1



15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Pesticides are exempt from TSCA.

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)

Section 302 extremely No

hazardous substance

Section 311 hazardous chemical Yes

Hazard categories (311/312) Immediate Hazard - Yes

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

Inventory status

On inventory (yes/no)\* Country(s) or region Inventory name China Inventory of Existing Chemical Substances in China (IECSC) No 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) Νo 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)

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State regulations WARNING: This product contains a chemical known to the State of California to cause

cancer.

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

Ethyl Alcohol 64-17-5 Present

Methanol 67-56-1 Environmental hazard

#### 16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

**HMIS**® ratings Health: 1\*

Flammability: 3 Physical hazard: 0 Personal protection:

**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. The information in the sheet was written based on the best knowledge and

experience currently available.

Prepared by Regulatory Compliance

Product name: Disinfectant Spray for Health Care Use MSDS US