# **MATERIAL SAFETY DATA SHEET**



	1. Product and Company Identification
Product number	010-003
Product name	Disinfectant Spray for Hospital Use
Effective date	24-Feb-2012
Company information	Claire Manufacturing Co. 1005 S. Westgate Drive Addison, IL 60101 United States
Company phone	1-630-543-7600
Emergency telephone US	1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version #	10
Supersedes date	02-Sep-2011
Product use	Disinfectant
	2. Hazards Identification
Emergency overview	Aerosol. FLAMMABLE 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.
Ingestion	Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. 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.
Signs and symptoms	Discomfort in the chest. Cyanosis (blue tissue condition, nails, lips, and/or skin). Narcosis. Coughing. Defatting of the skin. Skin irritation. Corneal damage.

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	1 - 3
Non-hazardous and other components below reportable levels		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. Continue rinsing. Call a physician or Poison Control Center immediately. Skin contact Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Inhalation Ingestion Notes to physician	In the un		tention if symptoms persist g contact a physician or po	
	į	5. Fire Fighting Me	asures	
Flammable properties		gas may spread to dista e or explosion hazard.	ant ignition sources and flas	sh back. Runoff to sewer may
Extinguishing media Suitable extinguishing med	<b>dia</b> Foam. D	ry chemical. Carbon dio	xide (CO2).	
Protection of firefighters Protective equipment and precautions for firefighters		of fire and/or explosion d prevent vapor pressure		iners should be cooled with
	6. A	ccidental Release	Measures	
Methods for containment			it risk. Move the cylinder to of material, if this is without	a safe and open area if the trisk.
Methods for cleaning up		n-combustible material e into a container for late	like vermiculite, sand or ear er disposal.	th to soak up the product
		ills: Wipe up with absorl ly to remove residual co	pent material (e.g. cloth, fle	ece). Clean surface
		7. Handling and S	torage	
Handling Storage	<ul> <li>Pressurized container: Do not pierce or burn, even after use. Do not smoke while using 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.</li> <li>Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed 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.</li> </ul>			
	8. Exposi	ure Controls / Pers	onal Protection	
Exposure limits ACGIH				
Components	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	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
Personal protective equipment				
Eye / face protection		et in eyes. Chemical go	ggles are recommended.	
Skin protection	-	l resistant gloves.		
Respiratory protection	When wo	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		

# 9. Physical & Chemical Properties

Compressed liquefied gas.

Boiling point	141.8 °F (61.1 °C) estimated
Color	colorless
Density	0.7516 g/cm3 estimated
Flammability (HOC)	25.0491 kJ/g estimated
Flash back	Yes
Flash point	-156 °F (-104.4 °C) Propellant
Form	Aerosol.
Freezing point	Not available
Odor	fruity alcoholic
рH	9.5 - 10.5
Physical state	Liquid.
Pressure	75 - 90 psig @ 70F
Solubility	Partially
Specific gravity	0.7517
10.	Chemical Stability & Reactivity Information
Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	No hazardous decomposition products are known.
	11. Toxicological Information
Acute effects	Acute LC50: 81 mg/l/4h estimated, Rat, Inhalation
Component analysis - LD50	
Toxicology Data - Selected LD50s ar	nd LC50s
· · · · · · · · · · · · · · · · · · ·	-17-5 Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h -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
	6-97-8 Inhalation LC50 Rat 658 mg/L 4 h -98-6 Inhalation LC50 Rat 658 mg/L 4 h
Propane 74- Sensitization	Not expected to be hazardous by OSHA criteria.
Carcinogenicity	
IARC - Group 1 (Carcinogenic to Hu	mana)
	-17-5 Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages)
Teratogenicity	Animal experiments showed mutagenic and teratogenic effects.
	12. Ecological Information
Ecotoxicity	LC50 1730 mg/L estimated, Fish, 96.00 Hours, 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
Disposal instructions	Contents under pressure. Dispose of this material and its container to hazardous or 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:	
Proper shipping name	Aerosols
Hazard class	2.1
UN number	UN1950
Additional information:	
Special provisions	153, N82
Packaging exceptions	LTD QTY
Packaging non bulk	None
Packaging bulk	None
Further information	Until 12/31



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.

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INIDG	
Basic shipping requirements:	
Proper shipping name	AEROSOLS
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Item	5F
Labels required	None
Transport Category	2
ΙΑΤΑ	

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 Adm	inistration (OSHA)
29 CFR 1910.1200 hazardous chemical	Yes
CERCLA (Superfund) reportable quar	ntity
Methanol: 5000.0000	
Superfund Amendments and Reauthor	orization Act of 1986 (SARA)
Section 302 extremely hazardous substance	No
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

Country(s) or region	Inventory name On inventory (yes	s/no)*
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)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
A "Yes" indicates that all compone	ents of this product comply with the inventory requirements administered by the governing country(s)	

#### 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
n-Butane	106-97-8	Present
Propane	74-98-6	Present

## 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.
MSDS sections updated	Product and Company Identification: Product and Company Identification Hazards Identification: Target organs Hazards Identification: Main symptoms Transport Information: Product Shipping Name/Packing Group Transport Information: Further information
Prepared by	Regulatory Compliance