MATERIAL SAFETY DATA SHEET



	1. Product and Company Identification		
Product number	018-002		
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		
Company phone	General Assistance 1-630-543-7600		
Emergency telephone US	1-866-836-8855		
Emergency telephone outside US	1-952-852-4646		
Version #	09		
Supersedes date	04-Aug-2009		
Product use	Disinfectant		
	2. Hazards Identification		
Emergency overview	Aerosol. FLAMMABLE CONTENTS UNDER PRESSURE. Will be easily ignited by heat, spark or flames. Prolonged exposure may cause chronic effects. Contact with eyes may cause irritation.		
Potential health effects			
Routes of exposure	Skin contact. Eye 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. Conjunctiva. 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. May cause delayed lung injury.		
Signs and symptoms	Discomfort in the chest. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Coughing. Conjunctivitis. Defatting of the skin. Skin irritation.		

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

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.			

Ingestion Notes to physician	In the un	likely event of swallowin	tention if symptoms persist g contact a physician or po Symptoms may be delayed.	ison control center.	
	· · · · ·	5. Fire Fighting Me			
Flammable properties				sh back. Runoff to sewer may	
		e or explosion hazard.		sh back. Runon to sewer may	
Extinguishing media					
Suitable extinguishing m	edia Foam. D	ry chemical. Carbon dio	xide (CO2).		
Protection of firefighters Protective equipment and precautions for firefighte		of fire and/or explosion d prevent vapor pressure l		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		Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.			
		ills: Wipe up with absort ly to remove residual co	pent material (e.g. cloth, fle ntamination.	ece). Clean surface	
		7. Handling and St	torage		
Storage	defective Avoid bre prolonge Contents	Do not re-use empty co eathing dust/fume/gas/m d exposure. under pressure. Do not	iist/vapors/spray. Ăvoid cor	haterial in contact with eyes. htact with skin. Avoid sh. The pressure in sealed	
	flame. Av	void exposure to long pe			
	flame. Av equipped	void exposure to long pe	e influence of heat. Keep a riods of sunlight. Store in c ut of the reach of children.	ool place. Keep in an area	
Exposure limits	flame. Av equipped	void exposure to long pe with sprinklers. Keep o	e influence of heat. Keep a riods of sunlight. Store in c ut of the reach of children.	ool place. Keep in an area	
ACGIH	flame. Av equipped 8. Exposi	void exposure to long pe d with sprinklers. Keep o ure Controls / Pers	e influence of heat. Keep a riods of sunlight. Store in c ut of the reach of children. onal Protection	ool place. Keep in an area Level 2 Aerosol.	
ACGIH Components	flame. Av equipped 8. Exposu CAS #	void exposure to long pe d with sprinklers. Keep o ure Controls / Pers TWA	e influence of heat. Keep a priods of sunlight. Store in c ut of the reach of children. onal Protection STEL	ool place. Keep in an area Level 2 Aerosol. Ceiling	
ACGIH Components Ethyl Alcohol	flame. Av equipped 8. Exposu CAS # 64-17-5	void exposure to long pe d with sprinklers. Keep o ure Controls / Pers TWA 1000 ppm	e influence of heat. Keep a priods of sunlight. Store in c ut of the reach of children. onal Protection STEL 1000 ppm	ool place. Keep in an area Level 2 Aerosol. Ceiling Not established	
ACGIH Components Ethyl Alcohol n-Butane	flame. Av equipped 8. Exposu CAS # 64-17-5 106-97-8	void exposure to long pe d with sprinklers. Keep o ure Controls / Pers TWA 1000 ppm 1000 ppm	e influence of heat. Keep a priods of sunlight. Store in c ut of the reach of children. onal Protection STEL 1000 ppm Not established	ool place. Keep in an area Level 2 Aerosol. Ceiling Not established Not established	
ACGIH Components Ethyl Alcohol	flame. Av equipped 8. Exposu CAS # 64-17-5	void exposure to long pe d with sprinklers. Keep o ure Controls / Pers TWA 1000 ppm	e influence of heat. Keep a priods of sunlight. Store in c ut of the reach of children. onal Protection STEL 1000 ppm	ool place. Keep in an area Level 2 Aerosol. Ceiling Not established	
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ACGIH Components Ethyl Alcohol n-Butane Propane Methanol	flame. Av equipped 8. Exposu CAS # 64-17-5 106-97-8 74-98-6	void exposure to long pe d with sprinklers. Keep o ure Controls / Pers TWA 1000 ppm 1000 ppm 1000 ppm	e influence of heat. Keep a priods of sunlight. Store in c ut of the reach of children. STEL 1000 ppm Not established Not established	ool place. Keep in an area Level 2 Aerosol. Ceiling Not established Not established Not established Not established	
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Compressed liquefied gas.

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Boiling point	141.8 °F (61.1 °C) estimated			
Color	Clear.			
Density	0.7517 g/cm3 estimated			
Flammability (HOC)	24.9174 kJ/g estimated			
Flash back No				
Flash point	-156 °F (-104.4 °C) Propellant			
Form	Aerosol.			
Freezing point	Not available			
Odor	Alcoholic.			
рН	9 - 10			
Physical state	Liquid.			
Pressure	75 - 90 psig @ 70F			
Solubility	Partially			
Specific gravity	0.7518			
10	. Chemical Stability & Reactivity Information			
Chemical stability	Stable at normal conditions. Risk of ignition.			
Conditions to avoid	Heat, flames and sparks.			
Hazardous decomposition products No hazardous decomposition products are known.				
	11. Toxicological Information			
Acute effects	Acute LC50: 82 mg/l/4h estimated, Rat, Inhalation			
Component analysis - LD50				
Toxicology Data - Selected LD50s a	Ind LC50s			
·) · · · · ·	4-17-5 Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h			
Methanol 67	7-56-1 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			
n-Butane 10	D6-97-8 Inhalation LC50 Rat 658 mg/L 4 h			
Propane 74	4-98-6 Inhalation LC50 Rat 658 mg/L 4 h			
Sensitization	Not expected to be hazardous by OSHA criteria.			
Carcinogenicity				
IARC - Group 1 (Carcinogenic to Hu	imans)			
Ethyl Alcohol 64	4-17-5 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 1766 mg/L estimated, Fish, 96.00 Hours, EC50 947 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. 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.

IMDG

IMDG	
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	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.
U.S CERCLA/SARA - Section 313 -	- Emission Reporting
Methanol 67-	1.0 % de minimis concentration
Occupational Safety and Health Adm	ninistration (OSHA)
29 CFR 1910.1200 hazardous chemical	Yes
CERCLA (Superfund) reportable qua	Intity
Methanol: 5000.0000	
Superfund Amendments and Reauth	orization Act of 1986 (SARA)
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	I 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)	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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
A "Yes" indicates that all compon	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
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	This document has undergone significant changes and should be reviewed in its entirety.
Prepared by	Regulatory Compliance