MATERIAL SAFETY DATA SHEET



	1. Product and Company Identification
Product number	873-002
Product name	Germicidal Cleaner
Effective date	06-May-2011
Company information	Claire Manufacturing Co. 1005 S. Westgate Drive Addison, IL 60101 United States
Company phone	General Assistance 630-543-7600
Emergency telephone US	800-424-9300
Emergency telephone outside US	703-527-3887
Version #	09
Supersedes date	01-Jul-2010
	2. Hazards Identification
Emergency overview	Aerosol. Will be easily ignited by heat, spark or flames. CONTENTS UNDER PRESSURE.
Potential health effects	
Eyes	Moderately irritating to the eyes.
Skin	Harmful if absorbed through the skin.
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Harmful if inhaled.
Ingestion	Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Target organs	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans. Kidney. Blood. Central nervous system. Liver. Respiratory system.
Chronic effects	Conjunctiva. Liver injury may occur. Kidney 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. Prolonged skin contact may defat the skin and produce dermatitis.
Signs and symptoms	Corneal damage. Narcosis. Liver enlargement. Conjunctivitis. Defatting of the skin.

Components	CAS #	Percent
2-Butoxyethanol	111-76-2	3 - 5
n-Butane	106-97-8	1 - 3
Non-hazardous and other components below reportable levels		> 90

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	Wash off with warm water and soap. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion	Have victim rinse mouth thoroughly with water. 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.

		5. Fire Fighting Me	asures	
Extinguishing media				
Suitable extinguishing m	edia Large Fi	res: Water spray, fog or	regular foam.	
	Small Fir	es: Dry chemical, CO2,	water spray or regular foan	n.
Protection of firefighters				
Protective equipment and precautions for firefighte	ers including apparatu prevent v	helmet, self-contained s, protective clothing an /apor pressure build up.	positive pressure or pressu	nould be cooled with water to anned hose holders or
	6. A	ccidental Release	Measures	
Methods for containment	Stop leal	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 Sp surface t	ills: Wipe up with absort horoughly.	bent material (e.g. cloth, fle	ece). Clean contaminated
		7. Handling and S	torage	
Handling	an open sprayed only with	flame, heat or other sou surface is thoroughly dr adequate ventilation. D	rces of ignition. Do not smo y. Do not use if spray buttor	n is missing or defective. Use ntact with eyes. Do not get
Storage	Contents containe		t puncture, incinerate or cru le influence of heat. Avoid e	sh. The pressure in sealed exposure to long periods of
	8. Exposi	ure Controls / Pers	onal Protection	
Exposure limits				
ACGIH				
Components	CAS #	TWA	STEL	Ceiling
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
OSHA				
Components	CAS #	TWA	STEL	Ceiling
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established
Personal protective equipme	nt			
Eye / face protection		emical goggles.		
Skin protection		e gloves.		
Respiratory protection	When workers are facing concentrations above the exposure limit they must use			
		ate certified respirators.		,
	9. Ph	ysical & Chemical	Properties	
Appearance	Compres	ssed liquefied gas.		
Boiling point	212 °F (1	100 °C) estimated		
Color	Pale yell			
Density	•	/cm3 estimated		
Flammability (HOC)	-	J/g estimated		
		-		

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No

-156 °F (-104.4 °C)

Flash back

Flash point

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Form	Aerosol.
Freezing point	Not available
Odor	fruity
pH	11.8 - 12.8
Physical state	
Pressure	55 - 75 psig @70F
Solubility	Partially
Specific gravity	0.9786
10	0. Chemical Stability & Reactivity Information
Chemical stability	Risk of ignition. Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known.
Hazardous decomposition product	s May include oxides of oxides of carbon.
	11. Toxicological Information
Acute effects	Acute LD50: 4536 mg/kg estimated, Rat, Dermal Acute LC50: 44 mg/l/4h estimated, Rat, Inhalation
Component analysis - LD50	
Toxicology Data - Selected LD50s	and LC50s
,,	111-76-2 Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg 100.027.0 Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rat 220 mg/kg
	106-97-8 Inhalation LC50 Rat 658 mg/L 4 h
Sensitization	Not expected to be hazardous by OSHA criteria.
Teratogenicity	Not expected to be hazardous by OSHA criteria.
	12. Ecological Information
Ecotoxicity	LC50 1162 mg/L, Fish, 96.00 Hours, EC50 17668 mg/L, Daphnia, 48.00 Hours, IC50 86.04 mg/L, Algae, 72.00 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
Disposal instructions	Contents under pressure. 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 (DO	Γ) Requirements
Basic shipping requirements:	
Proper shipping name	Consumer commodity
Hazard class	ORM-D
Subsidiary hazard class	None
Additional information:	
Packaging exceptions	156, 306
Packaging non bulk	156, 306
Packaging bulk	None

IMDG			
Basic shipping requirements			
Proper shipping name	AEROSO	15	
Hazard class	2.1		
UN number	1950		
Additional information:			
Packaging exceptions			
	5F		2
Labels required	None		V
Transport Category	2		
ΙΑΤΑ			
Basic shipping requirements	5:		
Proper shipping name	Aerosols,	flammable	
Hazard class	2.1		
UN number	1950		
Additional information:			
Packaging exceptions	LTD QTY		
Labels required	2.1		2/
			V
	1:	5. Regulatory Information	
US federal regulations	eral regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
U.S CERCLA/SARA - Section			
2-Butoxyethanol	111-76-2	1.0 % de minimis concentration (applies to R-(OCH2CH R=alkyl C7 or less, or R = phenyl or alkyl substituted ph less, or OR' consisting of carboxylic acid ester, sulfate, sulfonate, Chemical Category N230)	nenyl, R' = H or alkyl C7 or
Occupational Safety and Health	Administration		
29 CFR 1910.1200 hazardous chemical	s Yes		
CERCLA (Superfund) reportable	quantity		
None			
Superfund Amendments and Rea	authorization A	Act of 1986 (SARA)	
Section 302 extremely hazardous substance	No		
Section 311 hazardous chen	n ica l Yes		
Hazard categories (311/312)	Delayed H Fire Haza Pressure	e Hazard - Yes Hazard - No Ird - Yes Hazard - Yes / Hazard - No	
Inventory status			
Country(s) or region	Inventory nar	ne	On inventory (yes/no)*
China	Inventory of E	xisting Chemical Substances in China (IECSC)	No
Europe	European Inve	entory of New and Existing Chemicals (EINECS)	No

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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

U.S Pennsylvania - RTK (Right to Know) List		
2-Butoxyethanol	111-76-2	Present
n-Butane	106-97-8	Present

16. Other Information		
Further information	HMIS Trademark Statement	
HMIS® ratings	Health: 1 Flammability: 2 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.	
MSDS sections updated	Product and Company Identification: Product Review Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Physical & Chemical Properties	
Prepared by	Regulatory Compliance	