

# MATERIAL SAFETY DATA SHEET

	1. Product and Company Identification		
Product number	074-002		
Product name	Whiteboard Cleaner		
Effective date	26-Feb-2011		
Company information	Claire Mfg. 1005 Westgate 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 #	24		
Supersedes date	26-Oct-2010		
	2. Hazards Identification		
Emergency overview	Aerosol. CONTENTS UNDER PRESSURE. Prolonged exposure may cause chronic effects. May be ignited by heat, sparks or flames.		
Potential health effects			
Routes of exposure	Skin contact. Ingestion.		
Eyes	Health injuries are not known or expected under normal use.		
Skin	May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.		
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal.		
Ingestion	Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.		
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 be observed in humans.		
Chronic effects	Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). May be harmful if absorbed through skin. Liver injury may occur. Kidney injury may occur. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.		
Signs and symptoms	Cyanosis (blue tissue condition, nails, lips, and/or skin). Liver enlargement. Jaundice. Defatting of the skin. Skin irritation.		

3. Composition / Information on Ingredients			
Components	CAS #	Percent	
Ethyl Alcohol	64-17-5	1 - 3	
2-Butoxyethanol	111-76-2	1 - 3	
Propane	74-98-6	1 - 3	
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

Skin contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists. Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops and persists.

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Inhalation If symptoms develop move victim to fresh air. Get medical attention if symptoms occur. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If Ingestion ingestion of a large amount does occur, call a poison control center immediately. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under Notes to physician observation. 5. Fire Fighting Measures **Flammable properties** Heat may cause the containers to explode. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard. Extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Suitable extinguishing media **Protection of firefighters** Protective equipment and In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up. Move containers from fire area if you can do so precautions for firefighters without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. 6. Accidental Release Measures Methods for containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Should not be released into the environment. Methods for cleaning up Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. 7. Handling and Storage Handling Pressurized container: Do not pierce or burn, even after use. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Wear personal protective equipment. Avoid prolonged exposure. Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed Storage containers can increase under the influence of heat. Keep away from heat and flame. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Level 1 Aerosol (NFPA 30B)

#### 8. Exposure Controls / Personal Protection

#### **Exposure limits**

ACGIH				
Components	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	Not established
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
OSHA				
Components	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established

Personal protective equipment	
Eye / face protection	Chemical goggles are recommended.
Skin protection	Wear appropriate chemical resistant clothing. Chemical resistant gloves.

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When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

### 9. Physical & Chemical Properties

	9. Ph	ysical & Chemical Properties		
Appearance		sed liquefied gas.		
Boiling point	204.8 °F (96.1 °C) estimated			
Color	Colorless.			
Density	0.9604 g/cm3 estimated			
Flammability (HOC)	3.2733 kJ/g estimated			
Flash back	No			
Flash point	-156 °F (-104.4 °C) Propellant			
Form	Aerosol.			
Freezing point	Not available			
Odor	Butyl	Butyl		
рН	9.5 - 10.5	9.5 - 10.5		
Physical state	Liquid.			
Pressure	70 - 90 p	sig @ 70F		
Solubility	Complete	əly		
Specific gravity	0.9605 es	stimated		
	10. Chemic	al Stability & Reactivity Information		
Conditions to avoid	Heat, flar	mes and sparks.		
Incompatible materials	None kno	own.		
Hazardous decomposition pro	oducts Irritants.	Toxic gas.		
	11	. Toxicological Information		
Acute effects	Acute LD	950: 7571 mg/kg estimated, Rat, Dermal		
Component analysis - LD50				
Toxicology Data - Selected L	D50s and LC50s			
2-Butoxyethanol	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		
Ethyl Alcohol	64-17-5	Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h		
n-Butane Propane	106-97-8 74-98-6	Inhalation LC50 Rat 658 mg/L 4 h Inhalation LC50 Rat 658 mg/L 4 h		
Sensitization		acted to be hazardous by OSHA criteria.		
Carcinogenicity	•	us by OSHA criteria.		
IARC - Group 1 (Carcinogen				
Ethyl Alcohol	64-17-5	Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [in preparation] (in alcoholic beverages)		
Reproductive effects	Hazardou	us by OSHA criteria. Possible reproductive hazard.		
Teratogenicity	Not expe	cted to be hazardous by OSHA criteria.		
	1	2. Ecological Information		
Ecotoxicity Components of this product have been identified as having potential environme concerns.				
	LC50 36327 mg/L, Fish, 96.00 Hours, EC50 26428 mg/L, Daphnia, 48.00 Hours, IC50 11902 mg/L, Algae, 72.00 Hours,			
	13	B. Disposal Considerations		
Disposal instructions	Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.			

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## 14. Transport Information

Department of Transportation (DO	() 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:		<b>^</b>
Proper shipping name	AEROSOLS	
Hazard class	2.1	
UN number	1950	
Additional information:		
Packaging exceptions	LTD QTY	
Item	5F	2
Labels required	None	V
Transport Category	2	•
ΙΑΤΑ		
Basic shipping requirements:		
Proper shipping name	Aerosols, flammable	
Hazard class	2.1	
UN number	1950	× 1
Additional information:		
Packaging exceptions	LTD QTY	
Labels required	2.1	2
		V

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			
2-Butoxyethanol 111	-76-2 1.0 % de minimis concentration (applies to R-(OCH2CH2)n-OR', where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)		
Occupational Safety and Health Administration (OSHA)			
29 CFR 1910.1200 hazardous chemical	Yes		
CERCLA (Superfund) reportable quart	ntity		
None			
Superfund Amendments and Reauth	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 - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No		

Inventory status				
Country(s) or region	Inventory n	On inventory (yes/no)*		
China	Inventory of Existing Chemical Substances in China (IECSC)			
Europe	European Inventory of New and Existing Chemicals (EINECS) No			
Europe	European List of Notified Chemical Substances (ELINCS)			
Japan	Inventory of Existing and New Chemical Substances (ENCS) No			
Korea	Existing Chemicals List (ECL) No			
United States & Puerto Rico	Toxic Substa	ances Control Act (TSCA) Inventory	Yes	
A "Yes" indicates that all compon		uct comply with the inventory requirements administered by t	he governing country(s)	
State regulations				
U.S Pennsylvania - RTK (Rigl	ht to Know) List	t i i i i i i i i i i i i i i i i i i i		
2-Butoxyethanol	111-76-2	Present		
Ethyl Alcohol	64-17-5	Present		
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				
C C	Flammability: 2			
		I 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	Toxicolo	and Company Identification: Alternate Trade Names ogical Information: Carcinogenicity ory Information: Safety Phrases		
Prepared by	•	ory Compliance		
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