

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

824-002 Product number

Product name Heavy Duty Foaming Oven Cleaner

18-Sep-2012 Effective date

Claire Manufacturing Co. Company information

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 # 11

08-Sep-2011 Supersedes date Product use Oven cleaner

2. Hazards Identification

Aerosol, CONTENTS UNDER PRESSURE. **Emergency overview**

May be ignited by heat, sparks or flames. Corrosive. Causes skin and eye burns. Irritating to respiratory system. Prolonged exposure may cause chronic effects.

Potential health effects

Inhalation. Eye contact. Skin contact. Ingestion. Routes of exposure

Causes chemical burns. Corrosive to the eyes and may cause severe damage including Eves

blindness.

Skin Causes chemical burns.

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

Causes burns. Irritating to respiratory system. Prolonged inhalation may be harmful.

Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory Ingestion

tracts. May cause delayed lung damage. Components of the product may be absorbed

into the body by ingestion.

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

May cause central nervous system disorder (e.g., narcosis involving a loss of Chronic effects

coordination, weakness, fatique, mental confusion and blurred vision) and/or damage.

May cause delayed lung injury.

Contact with this material will cause burns to the skin, eyes and mucous membranes. Signs and symptoms

Discomfort in the chest. Narcosis. Coughing.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Sodium Hydroxide	1310-73-2	5 - 8
n-Butane	106-97-8	1 - 3
Diethylene Glycol Monobutyl Ether	112-34-5	1 - 3
Propane	74-98-6	1 - 3
Non-hazardous and other components below reportable levels		

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. Get medical attention immediately.

Immediately flush skin with plenty of water. Remove and isolate contaminated clothing Skin contact

and shoes. Get medical attention immediately. For minor skin contact, avoid spreading

material on unaffected skin. Wash clothing separately before reuse.

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Inhalation Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim

inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately. If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed),

immediately remove the affected person(s) to fresh air.

Ingestion Never give anything by mouth to a victim who is unconscious or is having convulsions. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs. IF

SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be

delayed.

5. Fire Fighting Measures

Flammable properties

Notes to physician

Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Protection of firefighters

Fire may produce irritating, corrosive and/or toxic gases.

Specific hazards arising from the chemical

Suitable extinguishing media

Protective equipment and precautions for firefighters 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

Methods for containment

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.

Methods for cleaning up

Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product 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

Handling

Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. 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. Do not get this material in contact with skin. Do not get this material on clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged exposure.

Storage

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 1 Aerosol (NFPA 30B)

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

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Components	CAS#	TWA	STEL	Ceiling
Sodium Hydroxide	1310-73-2	Not established	Not established	2 mg/m3
n-Butane	106-97-8	1000 ppm	Not established	Not established
Diethylene Glycol Monobutyl Ether	l 112-34-5	20 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established

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OSHA

Components	CAS#	TWA	STEL	Ceiling
Sodium Hydroxide	1310-73-2	2 mg/m3	Not established	Not established
Diethylene Glycol Monobuty Ether	1 112-34-5	100 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established

Personal protective equipment

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

Skin protection Do not get this material on clothing. Wear appropriate chemical resistant clothing.

Structural firefighters protective clothing provides limited protection in fire situations

ONLY; it is not effective in spill situations. Chemical resistant gloves.

Respiratory protection Do not breathe dust/fume/gas/mist/vapors/spray. If permissible levels are exceeded use

NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Wear

positive pressure self-contained breathing apparatus (SCBA).

9. Physical & Chemical Properties

Appearance Cloudy.

Boiling point 368.6 °F (187.2 °C) estimated

Color Colorless.

Density 1.0299 g/cm3 estimated **Flammability (HOC)** 3.4223 kJ/g estimated

Flash back No

Flash point -156 °F (-104.4 °C) Propellant

Form Aerosol.

Freezing point Not available

Odor Characteristic.

pH 13 - 14

pH 13 - 14 Physical state Liquid.

Pressure 50 - 60 psig @ 70F

Solubility Completely
Specific gravity 1.03

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition. Instability caused by elevated temperatures. May form explosive

peroxides.

Conditions to avoid Aerosol containers are unstable at temperatures above 49°C. Reacts violently with

strong acids.

Hazardous decomposition products Irritants. Toxic gas.

11. Toxicological Information

Acute effects Acute LD50: 16158 mg/kg estimated, Rat, Dermal

Causes burns.

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Diethylene Glycol Monobutyl Ether 112-34-5 Oral LD50 Rat 3384 mg/kg; Dermal LD50 Rabbit 2700 mg/kg

 n-Butane
 106-97-8
 Inhalation LC50 Rat 658 mg/L 4 h

 Propane
 74-98-6
 Inhalation LC50 Rat 658 mg/L 4 h

 Sodium Hydroxide
 1310-73-2
 Dermal LD50 Rabbit 1350 mg/kg

Teratogenicity Not expected to be hazardous by OSHA criteria.

12. Ecological Information

EcotoxicityLC50 631 mg/L, Fish, 96.00 Hours, EC50 6541 mg/L, Daphnia, 48.00 Hours,

IC50 6541 mg/L, Daphnia, 48.00 Hours IC50 745 mg/L, Algae, 72.00 Hours,

Components of this product are hazardous to aquatic life.

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13. Disposal Considerations

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

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

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:

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

Additional information:

Further information

153, N82 Special provisions Packaging exceptions 306 Packaging non bulk None None Packaging bulk

> This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. 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:

AEROSOLS Proper shipping name

Hazard class 2.1 Subsidiary hazard class 8 1950 **UN** number

Additional information:

LTD QTY Packaging exceptions 5FC Item Labels required None

Transport Category If <1L: Consumer Commodity

IATA

Basic shipping requirements:

Aerosols, flammable, containing substances in Class 8, Proper shipping name

Packing Group II

2.1 Hazard class Subsidiary hazard class 1950 **UN number**

Additional information:

FORBIDDEN Packaging exceptions

Labels required None

15. Regulatory Information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations**

Standard, 29 CFR 1910,1200.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Diethylene Glycol Monobutyl Ether 112-34-5

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)

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Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Yes

chemical

CERCLA (Superfund) reportable quantity

Sodium Hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely Nο

hazardous substance

Section 311 hazardous chemical Yes

Immediate Hazard - Yes Hazard categories (311/312)

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

Inventory status

Country(s) or region Inventory name On inventory (yes/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 Inventory of Existing and New Chemical Substances (ENCS) Japan No Korea Existing Chemicals List (ECL) Νo Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

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

Diethylene Glycol Monobutyl Ether 112-34-5 Environmental hazard

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

Sodium Hydroxide 1310-73-2 Environmental hazard

16. Other Information

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

Health: 3* **HMIS®** ratings Flammability: 2

Physical hazard: 0

The information provided in this Safety Data Sheet is correct to the best of our Disclaimer

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.

This document has undergone significant changes and should be reviewed in its entirety. MSDS sections updated

Prepared by Regulatory Compliance

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