



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 824-002
Product name Heavy Duty Foaming Oven Cleaner
Effective date 18-Sep-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 # 11
Supersedes date 08-Sep-2011
Product use Oven cleaner

2. Hazards Identification

Emergency overview Aerosol. CONTENTS UNDER PRESSURE.
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

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

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

Ingestion Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. 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 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 Contact with this material will cause burns to the skin, eyes and mucous membranes. 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		80 - 90

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. Get medical attention immediately.

Skin contact Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

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.

Notes to physician

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

5. Fire Fighting Measures

Flammable properties

Runoff to sewer may cause fire or explosion hazard.

Extinguishing media**Suitable extinguishing media**

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

Protection of firefighters**Specific hazards arising from the chemical**

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

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****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

112-34-5

20 ppm

Not established

Not established

Propane

74-98-6

1000 ppm

Not established

Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Sodium Hydroxide	1310-73-2	2 mg/m3	Not established	Not established
Diethylene Glycol Monobutyl Ether	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
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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
Physical state	Liquid.
Pressure	50 - 60 psig @ 70F
Solubility	Completely
Specific gravity	1.03

10. Chemical Stability & Reactivity Information
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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.
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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.
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12. Ecological Information

Ecotoxicity	LC50 631 mg/L, Fish, 96.00 Hours, EC50 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]
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	306
Packaging non bulk	None
Packaging bulk	None



Further information	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.
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IMDG

Basic shipping requirements:

Proper shipping name	AEROSOLS
Hazard class	2.1
Subsidiary hazard class	8
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Item	5FC
Labels required	None
Transport Category	If <1L: Consumer Commodity



IATA

Basic shipping requirements:

Proper shipping name	Aerosols, flammable, containing substances in Class 8, Packing Group II
Hazard class	2.1
Subsidiary hazard class	8
UN number	1950
Additional information:	
Packaging exceptions	FORBIDDEN
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.
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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Diethylene Glycol Monobutyl Ether 112-34-5	1.0 % de minimis concentration (applies to R-(OCH ₂ CH ₂) _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 chemical Yes

CERCLA (Superfund) reportable quantity

Sodium Hydroxide: 1000.0000

Superfund Amendments and Reauthorization 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/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)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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
n-Butane	106-97-8	Present
Propane	74-98-6	Present
Sodium Hydroxide	1310-73-2	Environmental hazard

16. Other Information**Further information**

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

HMIS® ratings

Health: 3*
Flammability: 2
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