

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number

824

Product name

Heavy Duty Foaming Oven Cleaner

Effective date

31-Mar-2008

Company information

Claire Manufacturing

500 Vista Ave.

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 #

06

Supersedes date

31-Mar-2008

2. Hazards Identification

Emergency overview

EXTREMELY FLAMMABLE

CONTENTS UNDER PRESSURE.

Aerosol. Pressurized container may explode when exposed to heat or flame. May be

ignited by heat, sparks or flames.

Corrosive. Causes skin and eye burns. Irritating to respiratory system. Prolonged

exposure may cause chronic effects.

OSHA regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard

Communication).

Potential health effects

Routes of exposure

Skin contact. Eye contact. Inhalation. Ingestion.

Eyes

This product causes eye burns. Risk of serious damage to eyes.

Skin

Causes skin 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

Exposure by ingestion of an aerosol is unlikely. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.

ns Central nervous system. Lungs.

Target organs
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 damage.

Signs and symptoms

Discomfort in the chest. Narcosis.

Potential environmental effects

Components of this product are hazardous to aquatic life. May cause long-term adverse

effects in the environment.

3. Composition /		

Components	CAS#	Percent
Sodium Hydroxide	1310-73-2	5 - 8
n-Butane	106-97-8	3 - 5
Diethylene Glycol Monobutyl Ether	112-34-5	3 - 5
Propane	74-98-6	3 - 5
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.

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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

Move to fresh air, 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

method if victim innaled the substance, induce artificial respiration with the aid of a pocker mask equipped with a one-way valve or other proper respiratory medical device. Get

medical attention immediately.

Ingestion If material is ingested, immediately contact a poison control center. Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from poison control

center. 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.

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

delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). In case of

shortness of breath, give oxygen. Keep victim warm.

5. Fire Fighting Measures

Flammable properties Containers may explode when heated. Runoff to sewer may cause fire or explosion

hazard. Extinguishing media

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

Unsuitable extinguishing media

Protection of firefighters

Specific hazards arising from

the chemical

Protective equipment and precautions for firefighters

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

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to

prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards

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

Personal precautions Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel

away.

Environmental precautions Methods for containment Prevent further leakage or spillage if safe to do so. Do not contaminate water.

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. Stop the flow of material, if this is without risk. Prevent entry into

waterways, sewers, basements or confined areas.

6. Accidental Release Measures

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 contaminated surface thoroughly.

7. Handling and Storage

Handling

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not reuse the empty container. Do not use if spray button is missing or defective. Use only with adequate ventilation. 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 release to the environment. Avoid prolonged exposure.

Storage

Level 1 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep the container dry. Keep out of the reach of children. Use care in handling/storage. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

8, Exposure Controls / Personal Protection

Exposure limits

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~		3117

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

Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control

airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection

Wear chemical goggles.

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. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Protective gloves. Wear chemical protective

equipment that is specifically recommended by the manufacturer.

Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA). If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied

General hygeine considerations

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. When using, do not eat, drink or smoke. Handle in

accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance

Compressed liquefied gas.

Color

Clear.

Odor

Characteristic.

Physical state

Gas.

Form

Aerosol.

Flash back

No

Pressure

50 - 60 psig @ 70F

Solubility

Completely

Flash point

-156 °F (-104.4 °C)

Boiling point

366.8 °F (186.1 °C) estimated

Specific gravity

1.025

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13 - 14

10. Chemical Stability & Reactivity Information

Chemical stability

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

peroxides.

Conditions to avoid

Heat, flames and sparks.

Hazardous decomposition products

Irritants. Toxic gas. May include oxides of nitrogen.

11. Toxicological Information

Acute effects

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

Causes burns.

Local effects

Irritating to respiratory system.

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Chronic effects

Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous

system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury.

Prolonged exposure may cause chronic effects.

Neurological effects

Hazardous by OSHA criteria.

Mutagenicity Reproductive effects Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by OSHA criteria.

Teratogenicity

Not expected to be hazardous by OSHA criteria.

Further information

Symptoms may be delayed.

12. Ecological Information

Ecotoxicity

Components of this product are hazardous to aquatic life.

LC50 615 mg/L estimated, Fish, 96.00 Hours, EC50 2385 mg/L estimated, Daphnia, 48.00 Hours, IC50 745 mg/L estimated, Algae, 72.00 Hours,

Environmental effects

Harmful to aquatic life.

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 at hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. 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.

Contaminated packaging

Do not re-use empty containers.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name

Consumer commodity

Hazard class

ORM-D None

Subsidiary hazard class

Additional information:

Packaging exceptions

156, 306

Packaging non bulk

156, 306

Packaging bulk

None

IMDG

Basic shipping requirements:

Proper shipping name

AEROSOLS, flammable, corrosive

Hazard class

2.1

UN number

1950

Additional information:

Packaging exceptions

LTD QTY

5FC

Labels required

None

Transport Category

IATA

Basic shipping requirements:

Proper shipping name

Aerosols, flammable, containing substances in Class 8,

Packing Group II

Hazard class

Subsidiary hazard class

2.1

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.

All components are on the U.S. EPA TSCA Inventory List.

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)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

CERCLA (Superfund) reportable quantity

Sodium Hydroxide: 1000,0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

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 74-98-6 1310-73-2 Present Present

Propane

Sodium Hydroxide

Environmental hazard

16. Other Information

Further information

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

HMIS® ratings

Flammability: 2

Physical hazard: 0

Prepared by

Regulatory Compliance

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.

Issue date

31-Mar-2008

MSDS sections updated

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

Product name: Heavy Duty Foaming Oven Cleaner

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