

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number

755-001

Product name

Penetrating Coil Cleaner

Effective date

18-Mar-2010 Claire Mfg.

Company information

500 Vista Ave.

Company phone

Addison, IL 60101 United States General Assistance 630-543-7600

800-424-9300

Emergency telephone US Emergency telephone outside US

703-527-3887

Version#

Supersedes date

17-Sep-2009

2. Hazards Identification

Emergency overview

CONTENTS UNDER PRESSURE. Aerosol.

Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure

Skin contact. Ingestion.

Eyes

Health injuries are not known or expected under normal use.

Skin

This product may be harmful if it is absorbed through the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and

dermatitis (rash).

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 been observed in humans.

Blood.

Non-hazardous and other components below reportable levels

Chronic effects

Unconsciousness. Prolonged skin contact may defat the skin and produce dermatitis.

Signs and symptoms

Cyanosis. Defatting of the skin. Irritation.

3. Composition / Information on Ingredients				
Components	CAS#	Percent		
n-Butane	106-97-8	3 - 5		
2-Butoxyethanol	111-76-2	1 - 3		
Diethylene Glycol Monoethyl Ether	111-90-0	1 - 3		
Propane	74-98-6	1 - 3		

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 if irritation

develops or persists.

Skin contact

Immediately take off all contaminated clothing. Wash off with warm water and soap. Get

medical attention if irritation develops or persists.

Inhalation

If symptoms develop move victim to fresh air. If symptoms persist, get medical attention.

Ingestion

Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur,

call a poison control center immediately.

> 90

5. Fire Fighting Measures

Flammable properties

Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

extinguisning media

Suitable extinguishing media Protection of firefighters

Protective equipment and precautions for firefighters

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

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.

6. Accidental Release Measures

Methods for containment

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.

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 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. 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. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep the container dry. Keep out of the reach of children. Level 1 Aerosol (NFPA 30B) Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

STEL

Ceiling

8. Exposure Controls / Personal Protection

Exposure limits

Components

			*	
n-Butane	106-97-8	1000 ppm	Not established	Not established
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
OSHA				
Components	CAS#	TWA	STEL	Ceiling
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established

TWA

Personal protective equipment

Eye / face protection

Wear chemical goggles.

CAS#

Skin protection

Wear appropriate chemical resistant clothing. Protective gloves.

Respiratory protection

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

Appearance

Compressed liquefied gas.

Product name: Penetrating Coil Cleaner Product #: 755 Penetrating Coil Cleaner Boiling point 208.4 °F (97.8 °C) estimated

Color Colorless.

Flammability (HOC) 3.6422 kJ/g estimated

Flash back No.

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

Form Aerosol.

Odor Characteristic.
pH 11.72 - 12.7

Physical state Liquid.

Pressure 65 - 75 psig @ 70F

Solubility Partially

Specific gravity 0.9692 estimated

10. Chemical Stability & Reactivity Information

Chemical stability

Risk of ignition.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

None known.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological Information

Acute effects

Acute LD50: 11169 mg/kg estimated, Rat, Dermal

Component analysis - LD50

Toxicology Data - Selected LD50s 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

Diethylene Glycol Monoethyl Ether 111-90-0

Oral LD50 Rat 1920 mg/kg; Dermal LD50 Rabbit 4200 µL/kg; Dermal LD50 Rat 6

mL/kg; Inhalation LC50 Rat >5240 mg/m3 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

Not expected to be hazardous by OSHA criteria.

Teratogenicity Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity

Components of this product have been identified as having potential environmental

concerns.

LC50 557 mg/L, Fish, 96.00 Hours, EC50 959 mg/L, Daphnia, 48.00 Hours, IC50 65.75 mg/L, Algae, 72.00 Hours,

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. Do not puncture, incinerate or crush. Dispose of this material and its container at hazardous or special waste collection point. 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

Consumer commodity

Hazard class

ORM-D None

Subsidiary hazard class

Additional information:

Packaging exceptions

156, 306

Packaging non bulk

Packaging bulk

156, 306 None

IMDG

Basic shipping requirements:

Proper shipping name

AEROSOLS

Hazard class

2.1

UN number

1950

Additional information:

Packaging exceptions

LTD QTY

Item

5F

Labels required

None

Transport Category

2

IATA

Basic shipping requirements:

Proper shipping name

Aerosols, flammable

Hazard class

2.1

UN number

1950

Additional information:

Packaging exceptions

LTD QTY

Labels required

2.1





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)

Diethylene Glycol Monoethyl Ether 111-90-0

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

Yes

chemical

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely

No

hazardous substance

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 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
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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

2-Butoxyethanol 111-76-2 Present

Diethylene Glycol Monoethyl Ether 111-90-0 Environmental hazard

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

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.

MSDS sections updated Product and Company Identification: Product Review

Physical & Chemical Properties: Physical & Chemical Properties

Prepared by Regulatory Compliance