### MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number

**ECO COIL Foaming Coil Cleaner Product name** 

Effective date 21-Jan-2013 Ricmar Industries Company information 889 N. Larch

Elmhurst, IL 60126 United States

General Assistance 800-323-0779 Company phone

1-866-836-8855 **Emergency telephone US** Emergency telephone outside US 1-952-852-4646

02 Version #

Supersedes date 08-Jan-2013

#### 2. Hazards Identification

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

Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Inhalation.

Health injuries are not known or expected under normal use. Eyes Health injuries are not known or expected under normal use. Skin

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

Exposure by ingestion of an aerosol is unlikely. Ingestion

**Target organs** Central nervous system.

**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.

Narcosis. Signs and symptoms

# 3. Composition / Information on Ingredients

Components	CAS#	Percent
n-Butane	106-97-8	3 - 5
Propane	74-98-6	1 - 3
Non-hazardous and other components below reportable levels		> 90

#### 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 if irritation

develops and persists.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower.

Inhalation If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

Ingestion In the unlikely event of swallowing contact a physician or poison control center.

Notes to physician Symptoms may be delayed.

#### 5. Fire Fighting Measures

Flammable properties

Protection of firefighters

Runoff to sewer may cause fire or explosion hazard.

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.

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### 6. Accidental Release Measures

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 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 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 container dry. 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
n-Butane	106-97-8	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
OSHA				

Components CAS# TWA STEL Ceiling Not established Propane 74-98-6 1000 ppm Not established

#### Personal protective equipment

Not normally needed. Eye / face protection

No special protective equipment required. Skin protection

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge

or an air-supplied respirator.

#### 9. Physical & Chemical Properties

Not available **Appearance** 

204.8 °F (96.1 °C) estimated **Boiling point** 

Color Opaque. Off-white. Density 0.8856 g/cm3 estimated Flammability (HOC) 2.6107 kJ/g estimated

Flash back Nο

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

Aerosol. Form Not available Freezing point Pleasant. Odor 8.5 - 9.5pΗ Liquid. Physical state

**Pressure** 55 psig @70F Solubility Partially

0.8857 estimated Specific gravity

# 10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition.

Avoid high temperatures. Conditions to avoid

Hazardous decomposition products No hazardous decomposition products are known.

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# 11. Toxicological Information

### Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

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

### 12. Ecological Information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

### 13. Disposal Considerations

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

Disposal instructions Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material

and its container to hazardous or special waste collection point. If discarded, this product is considered a RCRA ignitable waste, D001.

# 14. Transport Information

#### Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping nameAerosolsHazard class2.1UN numberUN1950

Additional information:

**Further information** 

Special provisions153, N82Packaging exceptions306Packaging non bulkNonePackaging bulkNone

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 and both may be displayed concurrently.

#### IMDG

Basic shipping requirements:

Proper shipping name AEROSOLS

Hazard class 2.1 UN number UN1950

Additional information:

Packaging exceptions LTD QTY
Labels required None

### 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





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# 15. Regulatory Information

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

Standard, 29 CFR 1910.1200.

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 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 On inventory (yes/no)\* Inventory name China Inventory of Existing Chemical Substances in China (IECSC) No Europe European Inventory of New and Existing Chemicals (EINECS) No European List of Notified Chemical Substances (ELINCS) Europe Νo Inventory of Existing and New Chemical Substances (ENCS) Japan Νo 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

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. The information in the sheet was written based on the best knowledge and

MSDS US

experience currently available.

MSDS sections updated Product and Company Identification: Product and Company Identification

Physical & Chemical Properties: Physical & Chemical Properties

Transport Information: Further information

Prepared by Regulatory Compliance

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