

1. PRODUCT AND COMPANY IDENTIFICATION**#34 Coil & Fin Cleaner®**

Supplier: RCD Corporation®
Address: 2850 Dillard Road Eustis, FL 32726

Emergency: 800-853-5053
non-emergency information: 352-589-0099

2. HAZARDS IDENTIFICATION

Emergency Overview	CONTENTS UNDER PRESSURE. Aerosol. Prolonged Exposure may cause chronic effects.
Potential health effects	
Route 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.
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

Ingredient(s)	CAS NO.	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
Non-hazardous and other components below reportable levels		> 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 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.

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

Suitable extinguishing media
Protection of firefighters
Protective equipment and
Precautions for Firefighters

Water fog. Dry chemical powder. Foam. 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 material in contact with skin. Avoid prolonged exposure.
Storage	Level Aerosol 1. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

ACGIH	CAS #	TWA	STEL	Ceiling
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	CAS #	TWA	STEL	Ceiling
Components				
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established

Personal protective equipment	
Eye/Face protection	Wear chemical goggles.
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 HIOSH mechanical filter / organic cartridge or an air-supplied respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Compressed liquefied gas	Color	Colorless
Boiling Point	208.4 °F (97.8 °C) estimated	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 AND REACTIVITY INFORMATION

Chemical stability	Risk of ignition.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None know.
Hazardous Decomposition Products	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

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

Component analysis – LD 50

Toxicology Data – Selected LD50s and LC50s

2-Butoxyethanol	111-76-2	Inhalation LC50 rate 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 420 uL/kg; Dermal LD50 Rat 6 mL/kg; Inhalation LC50 Rat >5240 mg/m ³ 4 h.
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

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 the applicable regulations.

14. TRANSPORTATION AND REGULATORY INFORMATION

Transportation of Dangerous Goods (TDG)

Basic shipping requirements:	
Proper Shipping name	Consumer commodity
Hazard Class	ORM-D
Subsidiary hazard class	None

Additional information:
 Packaging exceptions 156, 305
 Packaging non bulk 156, 306
 Packaging bulk 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-(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 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-(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)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Chemical Yes

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	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 Inventory of New and Existing Chemicals (EINCS)	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

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® ratings

HMIS® is a registered trade and service mark of the NPCA.
 Health: 1
 Flammability: 2
 Physical hazard: 0

Disclaimer

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