

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification	
Product number	500D1250
Product name	CDQ AEROSOL
Effective date	12-Aug-2009
Company Information	BRUNN & COMPANY P.O. Box 270 Indianapolis, IN 46206 United States
Company phone	General Assistance 317/923-3211
Emergency telephone US	1-866-838-8855
Emergency telephone outside US	703-527-3387
Version #	04
Supersedes date	10-Jan-2008

2. Hazards Identification	
Emergency overview	CONTENTS UNDER PRESSURE. Aerosol. Harmful in contact with eyes. Prolonged exposure may cause chronic effects.
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Ingestion.
Eyes	Contact may irritate or burn eyes. Eye contact may result in corneal injury.
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. Central nervous system.
Chronic effects	Unconsciousness. Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.
Signs and symptoms	Corneal damage. Narcosis. Cyanosis. Conjunctivitis. Defatting of the skin. Irritation.

3. Composition / Information on Ingredients		
Components	CAS #	Percent
2-Butoxyethanol	111-76-2	3-5
n-Butane	106-97-8	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 immediately.
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.

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Color	Yellow.
Flammability (HOC)	3.0683 kJ/g estimated
Flash back	No
Flash point	-156 °F (-104.4 °C) Propellant
Form	Aerosol
Odor	Characteristic.
pH	11.82 - 12.82
Physical state	Liquid.
Pressure	60 - 70 psig @ 70F
Solubility	Partially
Specific gravity	0.9766 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: 4536 mg/kg estimated, Rat, Dermal

12. Ecological Information	
Ecotoxicity	Components of this product have been identified as having potential environmental concerns. LC50 1165 mg/L estimated, Fish, 96 00 Hours, EC50 4304 mg/L estimated, Daphnia, 48 00 Hours, IC50 66 05 mg/L estimated, 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
Subsidiary hazard class	None
Additional information:	
Packaging exceptions:	156, 309
Packaging non bulk:	156, 309
Packaging bulk:	None

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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: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Protection of firefighters	Protective equipment and precautions for firefighters: 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 possible, withdraw from area and let fire burn.

6. Accidental Release Measures	
Methods for containment	Eliminate all ignition sources (no smoking, fires, 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 clearing up	Should not be released into the environment. Use a non-combustible material (i.e. 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, feces). 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. Level 1 Aerosol.
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. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

8. Exposure Controls / Personal Protection				
Exposure limits				
ACGH	Components	CAS #	TWA	STEL
	2-Butoxyethanol	111-76-2	20 ppm	Not established
	n-Butane	106-97-8	1000 ppm	Not established
OSHA	Components	CAS #	TWA	STEL
	2-Butoxyethanol	111-76-2	50 ppm	Not established

Personal protective equipment	
Eye / face protection	Wear chemical goggles.
Skin protection	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.
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.
Boiling point	212 °F (100 °C) estimated

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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	111-75-2 1.0 % de minimis concentration (applies to R-(O)CH2CH2-O-R', where n = 1, 2, or 3, R' is alkyl C1 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 N23)

Occupational Safety and Health Administration (OSHA)			
29 CFR 1910.1200 hazardous chemical	Yes		
CERCLA (Superfund) reportable quantity	None		
Superfund Amendments and Reauthorization Act of 1993 (SARA)			
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No		
Section 302 extremely hazardous substance	No		
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 (IECS)		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

State regulations			
U.S. - Pennsylvania - RTK (Right to Know) List			
2-Butoxyethanol	111-76-2	Present	
n-Butane	106-97-8	Present	

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16. Other Information

Further information	HMSB is a registered trade and service mark of the NPCA.
HMSB ratings	Haz331, 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	This document has undergone significant changes and should be reviewed in its entirety.
Prepared by	Regulatory Compliance