MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Product number CL866DIN

Material name DISINFECTANT BATHROOM CLEANER

Revision date 01-20-2014

CLAIRE MANUFACTURING CO Company information

1005 S Westgate Dr

ADDISON, IL 60101 United States

Company phone

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

US

Version # 02

Supersedes date 01-20-2014 **Expiry Date** 09-Jan-2017 **Product use** Bathroom Cleaner

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE.

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

inhaled or swallowed.

Very toxic. Corrosive. Causes skin and eye burns.

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Causes chemical burns. Corrosive to the eyes and may cause severe damage including blindness.

Can cause severe eye irritation.

Skin Causes chemical burns. May be harmful if absorbed through skin.

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

severe respiratory irritation. Prolonged inhalation may be harmful.

May be fatal if swallowed. Exposure by ingestion of an aerosol is unlikely. Components of the Ingestion

product may be absorbed into the body by ingestion. Ingestion causes burns of the upper digestive

and respiratory tracts.

Target organs Central nervous system. Lungs. Respiratory system.

> 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.

Chronic effects May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the

skin, leading to discomfort and dermatitis.

Signs and symptoms Contact with this material will cause burns to the skin, eyes and mucous membranes. Symptoms

are prostration, gasping, pallor, and uncoordinated movements. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache,

dizziness, tiredness, nausea and vomiting.

Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

| Components | CAS# | Percent |
|--|----------|-----------|
| Ethylene Glycol Monobutyl Ether | 111-76-2 | 3 - 7 |
| Butane | 106-97-8 | 1 - 5 |
| EDTA Tertrasodium Salt | 64-02-8 | 0.5 - 1.5 |
| Other components below reportable levels | | 60 - 100 |

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4. First Aid Measures

First aid procedures

Eve contact Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO

NOT delay irrigation or attempt to remove the lens. Continue rinsing. Call a physician or poison

control center immediately.

Skin contact Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water.

Call a physician or poison control center 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 mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control

center immediately.

Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth

thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. 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 Symptoms may be delayed.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Immediate medical attention is required. Show this safety data sheet to the

doctor in attendance.

5. Fire Fighting Measures

Flammable properties

Ruptured cylinders may rocket.

Extinguishing media

Suitable extinguishing

media

Water

Protection of firefighters

Specific hazards arising from the chemical

Protective equipment for

firefighters

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Firefighters should wear full protective clothing including self contained breathing apparatus. Structural firefighters protective clothing will only provide limited protection. Self-contained

breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not direct water at source of

leak or safety devices as icing may occur. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

Explosion data

Sensitivity to static

discharge

Not available.

Sensitivity to mechanical

impact

Not available.

6. Accidental Release Measures

Personal precautions Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary

personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal

protection, see section 8 of the MSDS.

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. If possible, turn leaking containers so that gas escapes rather than liquid. Move the cylinder to a safe and open area if the leak is irreparable. Prevent entry into

waterways, sewer, basements or confined areas.

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Methods for cleaning up

Ventilate the area. Should not be released into the environment. Stop the flow of material, if this is without risk. Isolate area until gas has dispersed. Following product recovery, flush area with water. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Do not get this material on clothing. Do not use in areas without adequate ventilation. Wash thoroughly after handling.

Storage

Keep locked up. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the MSDS). Level 1 Aerosol (NFPA 30B)

8. Exposure Controls / Personal Protection

Occupational exposure limits

| ACGIH Biological Exposure Indi | ces | |
|---|--------------------------------|--|
| Components | Туре | Value |
| 2-Butoxyethanol (CAS 111-76-2) | BEI | 200 mg/g |
| US. ACGIH Threshold Limit Valu | es | |
| Components | Туре | Value |
| 2-Butoxyethanol (CAS 111-76-2) | TWA | 20 ppm |
| Canada. Alberta OELs (Occupati | ional Health & Safety Code, Sc | hedule 1, Table 2) |
| Components | Туре | Value |
| Butane (CAS 106-97-8) | TWA | 1000 ppm |
| 2-Butoxyethanol (CAS 111-76-2) | TWA | 97 mg/m3 |
| , | | 20 ppm |
| Canada. British Columbia OELs. Safety Regulation 296/97, as am | | s for Chemical Substances, Occupational Health and |
| Components | Туре | Value |
| Butane (CAS 106-97-8) | STEL | 750 ppm |
| | TWA | 600 ppm |
| 2-Butoxyethanol (CAS 111-76-2) | TWA | 20 ppm |
| Canada. Ontario OELs. (Control | of Exposure to Biological or C | hemical Agents) |
| Components | Туре | Value |
| Butane (CAS 106-97-8) | TWA | 800 ppm |
| 2-Butoxyethanol (CAS 111-76-2) | TWA | 20 ppm |
| Canada. Quebec OELs. (Ministry | of Labor - Regulation Respec | ting the Quality of the Work Environment) |
| Components | Туре | Value |
| Butane (CAS 106-97-8) | TWA | 1900 mg/m3 |
| | | 800 ppm |
| 2-Butoxyethanol (CAS 111-76-2) | TWA | 97 mg/m3 |
| , | | 20 ppm |
| | | |

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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components **Type** Value

2-Butoxyethanol (CAS PEL 240 mg/m3

111-76-2)

50 ppm

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection Do not get in eyes. Face-shield.

Skin protection Do not get this material in contact with skin. Wear chemical protective equipment that is

specifically recommended by the manufacturer.

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

air-supplied respirator.

9. Physical & Chemical Properties

Appearance Liquid.

Boiling point 212 °F (100 °C) estimated

Color Not available.

-156.00 °F (-104.44 °C) Propellant estimated Flash point

Form Aerosol. Melting point/Freezing point Not available. Odor Not available. **Odor threshold** Not available. pH value Not available.

Physical state Gas.

55 - 75 psig @70F estimated Vapor pressure

Solubility (water) Not available. 0.979 estimated Specific gravity Flammability limits in air, Not available.

upper, % by volume

Flammability limits in air,

lower, % by volume

Not available.

Other data

Flame extension 0 in estimated Heat of combustion 3.44 kJ/g estimated

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition.

Conditions to avoid Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the

flash point.

Hazardous decomposition

products

Not available.

Possibility of hazardous

Hazardous polymerization does not occur.

reactions

11. Toxicological Information

Toxicological data

Product Species Test Results

19 OZ CL DISINF. BATHROOM CLNR LB 12PK (CAS Mixture)

Acute Dermal

LD50 Rabbit 8244.3896 mg/kg, estimated

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| Product | Species | Test Results |
|-----------------------------|-------------|--|
| Inhalation | | |
| LC50 | Cat | 1308.772 mg/l, If <1L: Consumer Commodity Hours, estimated |
| | Mouse | 32265.7188 mg/l, 2 Hours, estimated |
| | | 14432.9893 mg/l, 7 Hours, estimated |
| | | 12464.9121 mg/l, 10 Minutes, estimated |
| | | 5894.7368 mg/l, If <1L: Consumer Commodity Hours, estimated |
| | Rabbit | 12368.4209 mg/l, lf <1L: Consumer Commodity Hours, estimated |
| | Rat | 13333.334 mg/l, 2 Hours, estimated |
| | | 8947.3682 mg/l, If <1L: Consumer Commodity Hours, estimated |
| | | 7152.7354 mg/l, 4 Hours, estimated |
| | | 1640.9779 mg/l/4h, estimated |
| LCL0 | Cat | 8596.4912 mg/l, If <1L: Consumer Commodity Hours, estimated |
| | Rabbit | 8596.4912 mg/l, If <1L: Consumer Commodity Hours, estimated |
| | Rat | 2456.1404 mg/l, If <1L: Consumer Commodity Hours, estimated |
| Oral | | |
| LD50 | Guinea pig | 24.7372 g/kg, estimated |
| | Mouse | 24.7071 g/kg, estimated |
| | Rabbit | 6.5979 g/kg, estimated |
| | Rat | 11308.042 mg/kg, estimated |
| Other | | |
| LD50 | Dog | 7934.4087 g/kg, estimated |
| | Mouse | 11620.7471 mg/kg, estimated |
| | Rabbit | 5773.1958 mg/kg, estimated |
| | Rat | 6805.1997 mg/kg, estimated |
| Components | Species | Test Results |
| Butane (CAS 106-97-8) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Mouse | 680 mg/l, 2 Hours |
| | Rat | 658 mg/l, 4 Hours |
| EDTA Tertrasodium Salt (Ca | AS 64-02-8) | |
| Acute | | |
| <i>Oral</i> LD50 | Rat | > 2000 mg/kg |
| Other - | Tac | 2000 mg/kg |
| LD50 | Mouse | 330 mg/kg |
| 2500 | Rat | 4000 mg/kg |
| Ethylene Glycol Monobutyl I | | .ooo mgmg |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 400 mg/kg |
| | | |

| Components | Species Test Results | | |
|------------|----------------------|-------------------|--|
| Inhalation | | | |
| LC50 | Mouse | 700 mg/l, 7 Hours | |
| | Rat | 450 mg/l, 4 Hours | |
| Oral | | | |
| LD50 | Guinea pig | 1.2 g/kg | |
| | Mouse | 1.2 g/kg | |
| | Rabbit | 0.32 g/kg | |
| | Rat | 560 mg/kg | |
| Other | | | |
| LD50 | Mouse | 1130 mg/kg | |
| | Rabbit | 280 mg/kg | |
| | Rat | 340 mg/kg | |
| | | | |

^{*} Estimates for product may be based on additional component data not shown.

Acute effects Causes burns.

Chronic effects Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Carcinogenicity

ACGIH Carcinogens

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

A3 Confirmed animal carcinogen with unknown relevance to

humans

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene Glycol Monobutyl Ether (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

12. Ecological Information

Ecotoxicological data

| Product | | Species | Test Results |
|--------------------------|----------------------|---------------------------------------|--------------------------------------|
| 19 OZ CL DISINF. BATHF | ROOM CLNR LB 12 | PK (CAS Mixture) | |
| Algae | IC50 | Algae | 86.2182 mg/L, 72 Hours, estimated |
| Crustacea | EC50 | Daphnia | 33630.1289 mg/L, 48 Hours, estimated |
| Fish | LC50 | Fish | 1164.546 mg/L, 96 Hours, estimated |
| Components | | Species | Test Results |
| EDTA Tertrasodium Salt (| CAS 64-02-8) | | |
| Algae | IC50 | Algae | 1.01 mg/L, 72 Hours |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 472 - 500 mg/l, 96 hours |
| Ethylene Glycol Monobuty | /I Ether (CAS 111-76 | 6-2) | |
| Aquatic | | | |
| Fish | LC50 | Inland silverside (Menidia beryllina) | 1250 mg/l, 96 hours |

^{*} Estimates for product may be based on additional component data not shown.

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability Not available.

Partition coefficient

Butane 2.89 Ethylene Glycol Monobutyl Ether 0.83

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13. Disposal Considerations

Disposal instructions Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain

into sewers/water supplies. Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

UN number UN1950

UN proper shipping name

AEROSOLS, non-flammable, containing substances in Class 8, packing group III

Hazard class

8 D 80

Subsidiary hazard class Marine pollutant **Special provisions**

IATA

UN number UN1950

UN proper shipping name Transport hazard class(es) Aerosols, non-flammable, containing substances in Class 8, Packing Group III

2.2 Subsidiary class(es) 8 2C **ERG** code

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

IMDG

UN number UN1950 **UN** proper shipping name **AEROSOLS**

2.2 Transport hazard class(es) Subsidiary class(es) 8 Labels required None

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

Transport in bulk according

Not applicable.

to Annex II of MARPOL 73/78 and the IBC Code

Packaging Exceptions LTD QTY

IATA; IMDG; TDG



15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification A - Compressed Gas

D1A - Immediate/Serious-VERY TOXIC D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

E - Corrosive

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WHMIS labeling







Inventory status

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

16. Other Information

United States & Puerto Rico

Disclaimer

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

Yes

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This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product and Company Identification

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).