



MATERIAL SAFETY DATA SHEET

Company Identification

Manufacturer Information Blue Ribbon Products, Inc.
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Product Name DampOut Dehumidifier

Chemical Name Dowflake 77-80% Calcium Chloride (FIBC)

Composition/Information on Ingredients

Calcium Chloride	CAS# 010043-52-4	77-80%
Sodium Chloride	CAS# 007647-14-5	1-2%
Potassium Chloride	CAS# 007447-40-7	2-3%
Water	CAS# 007732-18-5	

Hazards Identification

Emergency Overview

White to Off-White Solid Flakes. Odorless. Causes Eye Irritation.

Potential Health Effects (See Section 11 for Toxicological Data)

Eye: Flakes may cause slight eye irritation. Dusts may cause severe irritation with corneal injury. Effects may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns.

Skin: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp or if material is confined to skin. May cause more severe response if skin is abraded (scrated or cut). When dissolving, the heat produced may cause more intense effects as well as thermal burns. Not classified as corrosive according to DOT. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

Ingestion: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.

Inhalation: Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract.

Systemic & Other Effects: No relevant information found.

First Aid

Eyes: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

Skin: Wash off in flowing water or shower.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Inhalation: Remove to fresh air if effects occur. Consult a physician.

Note To Physician: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

Fire Fighting Measures

Flammable Properties: Flash Point: Not Applicable. Method Used: Not Applicable.

Flammability Limits: LFL: Not Applicable. UFL: Not Applicable

Hazardous Combustion Products: Not Applicable

Extinguishing Media: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

Fire Fighting Instructions: Keep people away. Isolate fire area and deny unnecessary entry.

Protective Equipment

for Fire Fighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and full protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves).

Accidental Release Measures

(See Section 15 for Regulatory Information)

Protect People: Isolate area. Avoid contact with eyes and skin. May be a slipping hazard. Stop leak if it can be done safely. Wash exposed body areas thoroughly after handling. Use appropriate safety equipment. For additional information, refer to "Exposure Controls/Personnel Protection", MSDS Section 8.

Protect The Environment: *For small spills:* losses incidental to correct application of this product in its intended uses are not expected to be harmful to the environment.
For large spills: avoid contamination of drinking water, natural water, ground water or any waterway. Losses incidental to correct application of this product in its intended uses are not expected to be harmful to the environment.

Cleanup: *For small spills:* contain spill if possible. Collect material in a suitable and properly labeled containers. Flush residue with plenty of water.
For large spills: dike and transfer to suitable and properly labeled containers. Flush residue

with plenty of water.

Handling and Storage

Handling: Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80F, 27C)
Refer to Exposure Controls/Personal Protection, Section 8, of the MSDS.
For more storage and handling information refer to bulletin 173-01534.

Storage: Keep containers tightly closed when not in use. Store in dry place. Protect from atmospheric moisture.

Exposure Controls/Personal Protection

Engineering Controls: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Personal Protective Equipment:

Eye/Face Protection: Use safety glasses. For dusty operations or when handling solutions of the material, wear chemical goggles.

Skin Protection: For brief contact, no precautions other than clean body-covering clothing should be needed. Use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron or full-body suit will depend on operation. If skin comes in contact with contaminated clothing, remove the clothing immediately, wash skin area with soap and water and launder clothing before reuse. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty atmospheres, use an approved dust respirator.

Exposure Guidelines: Calcium Chloride: DOW IHG is 10 mg/m³
Sodium Chloride: DOW IHG is 10 mg/m³
Potassium Chloride: DOW IHG is 10 mg/m³

Physical and Chemical Properties

Appearance: White to Off-White Solid Flakes

Odor: None

Melting Point: Approximately 345 F, 174 C

Boiling Point: 347 F, 175 C

Vapor Pressure: 1.0 mmHg @ 20 C, 68 F

Vapor Density: Not Applicable

Solubility In Water: Very Soluble

Specific Gravity: 1.85

Stability and Reactivity

Chemical Stability: Stable. Hygroscopic.

Conditions To Avoid: None Known.

Incompatibility With Other Materials: Corrosive to some metals. Avoid contact with metals such as: brass, mild steel, aluminum, or ferrous metals. Flammable hydrogen may be generated from contact with metals such as zinc or sodium. Avoid contact with sulfuric acid. Heat is generated when mixing with water. Spattering or boiling can occur.

Hazardous Decomposition Products: Does not decompose.

Hazardous Polymerization: Will not occur.

Toxicological Information

(See Section 3 for Potential Health Effects. For detailed Toxicological Data, write or call the address or non-emergency number shown in Section 1)

Acute Skin: The LD50 for skin absorption in rabbits is >5000 mg/kg for CACL2.

Acute Ingestion: The oral LD50 for rats is 967-1668 mg/kg for CACL2 (100% basis)

Mutagenicity (Effects on Genetic Material): For CACL2, in vitro mutagenicity studies were negative

Ecological Information

(For detailed Ecological Data, write or call the address or non-emergency number shown in Section 1)

Environmental Fate Movement & Partitioning: Partitioning from water to N-Octanol is not applicable.

Degradation & Persistence: Biodegradation is not applicable.

Ecotoxicology: Based largely or completely on data for major component(s). Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/l in most sensitive species).

Disposal Considerations

(See Section 15 for Regulatory Information)

Disposal: Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The Dow Chemical company has no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in MSDS Section 2 (Composition/Information on Ingredients)

For unused and uncontaminated product, the preferred option includes sending to a licensed, permitted: reclaimer, landfill, or waste water treatment system.

For additional information, refer to:

- Handling & Storage Information, MSDS Section 7
- Stability & Reactivity Information, MSDS Section 10
- Regulatory Information, MSDS Section 15

As a service to its customers, DOW can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess, or manage chemicals or plastics, and that manage used drums. Telephone DOW's customer information center at 800-258-2436 or 517-832-1556 for further details.

Transport Information

United States DOT Information: This product is not regulated by DOT when shipped domestically by land.

Canadian TDG Information: This product is not regulated by TDG when shipped domestically by land.

Regulatory Information

(Not meant to be all-inclusive – selected regulations represented)

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

SARA 313 Information: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 Supplier notification requirements.

SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the superfund amendment and reauthorization act of 1986 (SARA TITLE III) and is considered, under applicable definitions, to meet the following categories: An Immediate Health Hazard. This product has been categorized as an "Immediate Health Hazard" due the possibility of eye or skin irritation.

Toxic Substances Control Act (TSCA):

All ingredients are on the TSCA Inventory or are not required to be listed on the TSCA Inventory. The CAS number(s) for TSCA is (are): CAS# 010043-52-4, CAS# 007647-14-5, CAS# 007447-40-7, CAS# 007732-18-5

State Right-To-Know: This product is not known to contain any substances subject to the disclosure requirements of New Jersey or Pennsylvania

OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product has been categorized as a "Hazardous Chemical" due to the possibility of eye or skin irritation.

Department of Transportation (DOT): This product is not regulated by DOT when shipped domestically by land.

Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund): To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

Canadian Regulations

WHMIS Information: The Canadian Workplace Hazardous Material Information System (WHMIS) classification for this product is: D2B – Eye or Skin Irritant – refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

CPR Statement: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Hazardous Products Act information: This product contains the following ingredients which are controlled products and/or on the ingredients disclosure list (Canadian HPA Section 13 and 14):
Calcium Chloride CAS# 010043-52-4 77-80%

Other Information

Blue Ribbon Products, Inc. expressly disclaims all express or implied warranties to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Blue Ribbon Products makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Blue ribbon Products control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

Prepared By Technical Department

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