

MATERIAL SAFETY DATA SHEET

HMIS RATINGS

Health Hazard: 2
Flammability Hazard: 0
Reactivity Hazard: 1

Willert Product No. 755 & 758

Issue Date: 03/13/2013

Supersedes: Not Applicable.

Product Name: airBoss[®] Closet Dehumidifier
Net Wt. 6.7 oz. (Item No. 755), Net Wt. 10.6 oz. (Item No. 758)

(The information provided in this Material Safety Data Sheet is directed at occupational exposure and may not be applicable to consumer use of the product.)

Willert Home Products, Inc.
4044 Park St.
St. Louis, MO 63110

EMERGENCY TELEPHONE NUMBER: 314-772-2822 (8:30 AM to 4:30 PM CST)
CHEMTREC 800-424-9300

SECTION 2: COMPONENT INFORMATION

Ingredient	CAS Number	Concentration in Product
Calcium chloride (dihydrate)	10035-04-8	99-100%

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview:

White granular solid in plastic tub with moisture permeable film. Harmful if swallowed. Dust may cause eye and respiratory tract irritation.

Potential Health Effects:

Relevant Routes Of Exposure: Inhalation, Ingestion, Eye Contact, Skin Contact.

Acute Effects:

Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation.

Eyes: Contact with the eyes can cause irritation.

Inhalation: Dust can cause respiratory tract irritation.

Skin: Repeated or prolonged contact could cause skin irritation.

Carcinogenicity: None of the ingredients are listed by NTP, OSHA and IARC.

Reproductive Effects: None expected.

Target Organs: Ocular, respiratory, dermal, and gastrointestinal.

Medical Conditions Aggravated By Exposure: None known.

SECTION 4: FIRST AID PROCEDURES

First Aid Procedures:

EYES: Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Remove contact lenses, if present, after the first five minutes and continue rinsing the eye. Call a physician or poison control center immediately.

SKIN: Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothing before reuse. If irritation occurs, get medical attention.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

INGESTION: Do not give anything by mouth to an unconscious person. Call poison control center or doctor immediately for treatment advice. Have person rinse the mouth with water. If able to swallow, have the person sip a glass of water. Do not induce vomiting unless told to do so by a poison control center or doctor.

SECTION 5: FIRE HAZARDS

Unusual Fire and Explosion Hazards: Prolonged contact with zinc (galvanized iron tank) causes slow evolution of hydrogen.

Fire Fighting Procedures:

NIOSH approved positive pressure, self-contained breathing apparatus and full protective turnout gear.

Evacuate personnel to an area upwind to avoid smoke and vapors.

Remove containers of this material if it can be done safely.

Use water to keep fire exposed containers cool.

Protective clothing and equipment must be decontaminated if contact with the material or vapors has occurred.

Extinguishing Media: All common extinguishing media are suitable.

Conditions to Avoid: Moisture, contact with hot water (The exotherm produced by adding solid calcium chloride to hot water can cause violent boiling.), contact with metals, prolonged contact with zinc (galvanized iron tank) causes slow evolution of hydrogen.

Hazardous Combustion Products: May produce irritating and toxic smoke and fumes. Heated to decomposition, calcium chloride may emit hydrogen chloride.

Flash Point: Not applicable.

Flammability Limits: Lower: Not applicable.

Upper: Not applicable.

Autoignition Temperature: Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Pre-Entry Spill Procedure:

Shut off source of spill if it is safe to do so.

Review Section 3 - Hazards Identification and Section 8- Exposure Control/Personal Protection before proceeding with the clean up.

Clean Up and Containment:

Scoop or shovel spilled material into suitable labeled container with a tight fitting lid.

Secure the drum cover and move the container to a safe holding area.

Check area for residual material and repeat clean up if detected.

Environmental Concerns: None known. Calcium chloride will not biodegrade or bioaccumulate.

Treatment and Disposal:

Decontaminate or dispose of all protective clothing and equipment.

See Section 13 - Disposal Recommendations for disposal information.

Reporting Requirements:

Report all releases which are likely to endanger the public health, harm the environment, or cause complaint to the appropriate State or Local officials.

SECTION 7: HANDLING AND STORAGE

General Measures:

Store in a dry area at room temperature.

Do not generate dust.

Keep away from heat, sparks, and flame.

Do not add to hot water.

No contact with zinc surfaces.

Materials or Conditions to Avoid:

Contact with water, metals, acids, alkalis, high temperature and moisture.

Moisture and high humidity conditions.

Elevated temperatures in the presence of water.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

General Hygienic Practices:

Do not get on eyes, skin, or clothing.

Do not breathe dust or fumes.

Wash thoroughly after handling.

Eyewear: Chemical goggles.

Skin: Gloves are recommended if there is a potential for skin contact. A plastic or rubber glove which provides a physical barrier to the powder is required. Use disposable spun polyolefin (e.g.

Tyvek) coveralls or equivalent to protect against contact. Consult the glove and clothing manufacturers, suppliers and/or industrial hygienist for further information.

Respiratory Protection: Respiratory protection is required whenever air contamination (dust, mist, or vapors) is generated by the process. A NIOSH approved high efficiency toxic dust/mist/fume respirator is recommended.

Work Practices and Engineering Controls:

General room ventilation is adequate unless the process generates dust or fumes.

Prevent the accumulation of dust in the work area by thorough periodic cleaning of the area.

Protective Measures During Repair and Maintenance: No special measures are required. Follow the recommendation for personal protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

The following information pertains to calcium chloride.

Appearance: White granular solid supplied in plastic tub with moisture permeable film. Net weight 6.7 oz. (Item # 755) or 10.6 oz. (Item # 758)

Odor: None.

Taste: Not determined.

pH: Not determined.

Volatile (Wt. or Vol.), %: Not determined.

Moisture Content, (Wt.) %: Not determined.

Solubility in Water: Not determined.

Solubility - other solvents: Not determined.

Specific Gravity/Bulk Density: Not determined.

Vapor Pressure: Not determined.

Vapor Density (air = 1): Not determined.

Evaporation Rate: < butyl acetate

Boiling Point: Not determined.

Melting Point: Not determined.

SECTION 10: STABILITY AND REACTIVITY

General Stability Considerations: Stable at room temperature. Hygroscopic: absorbs moisture from the air.

Incompatible Materials: Metals, reducing agents, acids, alkalis, high temperature and moisture.

Hazardous Decomposition Products: Not determined.

Hazardous Polymerization: Violent polymerization can occur in the presence of methyl vinyl ether.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral - rat LD₅₀ = 1000 mg/kg; Oral - rabbit LD₅₀ = 1384 mg/kg; Oral - mouse LD₅₀ = 1940 mg/kg; Intraperitoneal - rat LD₅₀ = 264 mg/kg; Intraperitoneal – mouse LD₅₀ = 210 mg/kg; Subcutaneous - rat LD₅₀ = 2630 mg/kg; Subcutaneous - mouse LD₅₀ = 823 mg/kg; Subcutaneous - cat LD₅₀ = 249 mg/kg; Subcutaneous - rabbit LD₅₀ = 472 mg/kg; Intravenous - rat LD₀ = 161 mg/kg; Intravenous - dog LD₀ = 274 mg/kg; Intravenous - cat LD₀ = 249 mg/kg; Intravenous – guinea pig LD₀ = 150 mg/kg.

Reproductive/Teratogenicity Effects: None known.

Mutagenicity/Genotoxicity Information: Calcium chloride was positive in an unscheduled DNA synthesis assay using rats dosed intraperitoneally at 2500 umol/kg. It was also positive in Yeast (*Saccharomyces cerevisiae*) a sex chromosome loss and nondisjunction, at 200 mmol/L.

Carcinogenicity and Chronic Toxicity: Oral dosing of rats for 20 weeks, produced thyroid tumors. The results were considered “equivocal” evidence of tumorigenicity.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate: Calcium chloride does not bioaccumulate and is not biodegradable.

Ecotoxicity: LC₅₀ (120 hours) *Nitzschia linearis* = 3130 mg/L (static conditions). LC₁₀₀ (168 hours) Rock bass = 555 mg/L

SECTION 13: DISPOSAL RECOMMENDATIONS

Waste Disposal Method: Dispose of material and containers in accordance with all applicable federal, state, and local environmental regulations.

SECTION 14: TRANSPORTATION INFORMATION

Calcium Chloride: Coast Guard Bulk Hazardous Material.

SECTION 15: REGULATORY INFORMATION

California Proposition 65 List: None of the ingredients are listed.

SECTION 16: OTHER INFORMATION

GRAS Status – Substance added directly to food affirmed as generally recognized as safe (GRAS). 21 CFR 184.1193.

LIST OF ACRONYMS

ACGIH: American Conference of Governmental Industrial Hygiene
AIHA WEEL: American Industrial Hygienists Association - Workplace Environmental Exposure Level
ANSI: American National Standards Institute
C: Ceiling
California Prop. 65: California Safe Drinking Water and Toxic Enforcement Act (Prop 65)
Canadian WHMIS: Canadian Workplace Hazardous Materials Information System Ingredient Disclosure
CASRN: Chemical Abstracts Service Registry Number
CERCLA: Comprehensive Emergency Response, Compensation and Liability Act
DOT: U. S. Department of Transportation
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMO: International Maritime Organization
N/A: Not Applicable
NOR: Not Otherwise Regulated
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: OSHA Permissible Exposure Limit
RCRA: Resource Conservation and Recovery Act
RQ: Reportable Quantity
SARA: Superfund Amendment Reauthorization Act
STEL: Short-Term Exposure Limit
TLV: Threshold Limit Values (registered trademark of ACGIH)
TPQ: Threshold Planning Quantity
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty, or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.