



# Material Safety Data Sheet

The Dow Chemical Company  
Midland, Michigan 48674

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Page: 1

24-Hour Emergency Phone Number: 989-636-4400

Product: PELADOW\* PREMIER SNOW AND ICE MELTER CALCIUM CHLORIDE (50 LB BAG)

Product Code: 41668

Effective Date: 10/16/00 Date Printed: 01/05/02 MSD: 005488

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Calcium chloride	CAS# 010043-52-4	90-97%
Sodium chloride	CAS# 007647-14-5	1- 2%
Potassium chloride	CAS# 007447-40-7	2- 3%
Strontium chloride	CAS# 010476-85-4	0- 1%
Water	CAS# 007732-18-5	

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

\*\*\*\*\*  
 \*  
 \* White to off-white solid pellets. Odorless. Causes eye irritation. \*  
 \*  
 \*\*\*\*\*

### POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: Pellets 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 (scratched or cut). When dissolving, the heat produced may cause more intense effects as well as thermal burns. Not classified as corrosive according

(Continued on page 2 , over)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

**M A T E R I A L   S A F E T Y   D A T A   S H E E T****PAGE: 2****Product: PELADOW\* PREMIER SNOW AND ICE MELTER CALCIUM CHLORIDE (50 LB BAG)****Product Code: 41668****Effective Date: 10/16/00****Date Printed: 01/05/02****MSD: 005488**

---

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.

**4. 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.

**5. 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

(Continued on page 3)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

**M A T E R I A L   S A F E T Y   D A T A   S H E E T** **PAGE: 3****Product: PELADOW\* PREMIER SNOW AND ICE MELTER CALCIUM CHLORIDE (50 LB BAG)****Product Code: 41668****Effective Date: 10/16/00      Date Printed: 01/05/02      MSD: 005488**

---

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).

**6. 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 applications 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 applications 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.

**7. 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.

(Continued on page 4 , over)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

**MATERIAL SAFETY DATA SHEET** PAGE: 4

Product: PELADON\* PREMIER SNOW AND ICE MELTER CALCIUM CHLORIDE (50 LB BAG)  
Product Code: 41668

Effective Date: 10/16/00 Date Printed: 01/05/02 MSD: 005488

For more storage and Handling Information refer to bulletin 173-01534.

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

**8. 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: When prolonged or frequently repeated contact could occur, 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. Remove contaminated 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: In dusty atmospheres, use an approved dust respirator. Atmospheric levels should be maintained below the exposure guideline.

EXPOSURE GUIDELINES: Calcium chloride: Dow IHG is 10 mg/m<sup>3</sup>.  
Sodium chloride: Dow IHG is 10 mg/m<sup>3</sup>.  
Potassium chloride: Dow IHG is 10 mg/m<sup>3</sup>.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: White to off-white solid pellets.  
ODOR: Odorless.  
MELTING POINT: Approx. 1424F, 772C  
BOILING POINT: >1500F, >815C  
VAP. PRESS: <0.005 mmHg @ 20C  
VAP. DENSITY: Not applicable.  
SOL. IN WATER: Very soluble.  
SP. GRAVITY: 2.2

**10. STABILITY AND REACTIVITY**

(Continued on page 5)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

**ACUTE**

SKIN: The LD50 for skin absorption in rabbits is > 5000 mg/kg.

INGESTION: The oral LD50 for rats is between 967-1668 mg/kg.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): For CaCl<sub>2</sub>, in vitro mutagenicity studies were negative.

**12. 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: Inhibitory concentration (IC50) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is greater than 1000 mg/L.

ECOTOXICOLOGY: Based largely or completely on data for major component(s). Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in most sensitive species).  
Acute LC50 in bluegill (Lepomis Macrochirus) is 8400-10650 mg/L.  
Acute LC50 in mosquito fish (Gambusia affinis) is 13400 mg/L.  
Acute LC50 in water flea Daphnia magna is 759-3005.

**13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)**

(Continued on page 6, over)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

**MATERIAL SAFETY DATA SHEET** PAGE: 6**Product: PELADOW\* PREMIER SNOW AND ICE MELTER CALCIUM CHLORIDE (50 LB BAG)**

Product Code: 41668

Effective Date: 10/16/00 Date Printed: 01/05/02 MSD: 005488

**DISPOSAL:** 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 & UNCONTAMINATED PRODUCT, the preferred options include 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.

**14. TRANSPORT INFORMATION****UNITED STATES DOT INFORMATION:**

This product is not regulated by D.O.T. when shipped domestically by land.

**CANADIAN TDG INFORMATION:**

This product is not regulated by T.D.G. when shipped domestically by land.

**15. 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;

(Continued on page 7)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

**M A T E R I A L   S A F E T Y   D A T A   S H E E T****PAGE: 7****Product: PELADOW\* PREMIER SNOW AND ICE MELTER CALCIUM CHLORIDE (50 LB BAG)****Product Code: 41668****Effective Date: 10/16/00****Date Printed: 01/05/02****MSD: 005488**  
-----

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.

**U.S. REGULATIONS**  
-----

**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 to 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# 010476-85-4

CAS# 007732-18-5

-----

**STATE RIGHT-TO-KNOW:** This product is not known to contain any substances subject to the disclosure requirements of

(Continued on page 8 , over)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

**M A T E R I A L   S A F E T Y   D A T A   S H E E T** **PAGE: 8**

**Product: PELADOW\* PREMIER SNOW AND ICE MELTER CALCIUM CHLORIDE (50 LB BAG)**

**Product Code: 41668**

**Effective Date: 10/16/00      Date Printed: 01/05/02      MSD: 005488**

---

**REGULATORY INFORMATION (CONTINUED)**

New Jersey  
 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.

**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 Materials 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 Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Calcium Chloride	CAS# 010043-52-4	90-97%

**16. OTHER INFORMATION**

(Continued on page 9)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY