

# SAFETY DATA SHEET

M48005 NA\_EN



## Occidental Chemical Corporation

A subsidiary of Occidental Petroleum Corporation



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### PELADOW™ PREMIER SNOW AND ICE MELTER CALCIUM CHLORIDE

MSDS No.: M48005

Rev. Date: 17-Jul-2012

Rev. Num. 01

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#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**Company Identification:** Occidental Chemical Corporation  
5005 LBJ Freeway  
P.O. Box 809050  
Dallas, TX 75380-9050

**24 Hour Emergency Telephone Number:** 1-800-733-3665 or 1-972-404-3228 (U.S.); CHEMTREC (U.S.): 1-800-424-9300; CHEMTREC (outside U.S.): +1 703-527-3887

**To Request an SDS:** MSDS@oxy.com or 1-972-404-3245

**Customer Service:** 1-800-752-5151 or 1-972-404-3700

**Product Use:** Ice Melting

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#### 2. HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:**

**Color:** White  
**Physical State:** Pellets  
**Odor:** Odorless

**Signal Word:** **WARNING**

**MAJOR HEALTH HAZARDS:** CAUSES EYE AND SKIN IRRITATION. HARMFUL IF SWALLOWED.

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**POTENTIAL HEALTH EFFECTS:**

**Inhalation:** Dust may cause irritation to upper respiratory tract (nose and throat).

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**Skin contact:** Brief contact is essentially nonirritating to skin. Prolonged contact may cause skin irritation, even a burn. Not classified as corrosive to the skin according to DOT guidelines. May cause more severe response if skin is damp. May cause more severe response if skin is abraded (scratched or cut). May cause more severe response on covered skin (under clothing, gloves).

**Eye contact:** For solid: May cause slight eye irritation, mechanical injury only. Dust formation should be avoided, as dust can cause severe eye irritation with corneal injury.

**Ingestion:** Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Swallowing may result in gastrointestinal irritation or ulceration.

See Section 11: TOXICOLOGICAL INFORMATION

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	%	CAS Number
Calcium chloride	> 90 - < 92	10043-52-4
Potassium Chloride	> 2 - < 3	7447-40-7
Water	> 4 - < 6	7732-18-5
Sodium chloride	> 1 - < 2	7647-14-5
Calcium bromide (CaBr <sub>2</sub> )	<1	7789-41-5

## 4. FIRST AID MEASURES

**INHALATION:** Move person to fresh air; if effects occur, consult a physician.

**SKIN CONTACT:** Wash off immediately with plenty of water.

**EYE CONTACT:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If effects occur, consult a physician, preferably an ophthalmologist. May cause injury due to mechanical action.

**INGESTION:** If swallowed, do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Never give anything by mouth to an unconscious or convulsive person.

**Protection of First-Aiders:** If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Notes to Physician:** Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. FIRE-FIGHTING MEASURES

**Fire Hazard:** This material does not burn.

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**Extinguishing Media:** Use extinguishing agents appropriate for surrounding fire.

**Fire Fighting:** Keep unnecessary people away, isolate hazard area and deny entry. This material does not burn. Fight fire for other material that is burning. Water should be applied in large quantities as fine spray. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Wear protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

**Lower Flammability Level (air):** Not applicable

**Upper Flammability Level (air):** Not applicable

**Flash point:** Not applicable

**Autoignition Temperature:** Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

**Occupational Release:** Small and large spills: Contain spilled material if possible. Collect in suitable and properly labeled containers. Flush residue with plenty of water. See Section 13, Disposal Considerations, for additional information.

**Personal Precautions:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.

**Environmental Precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

## 7. HANDLING AND STORAGE

**Storage Conditions:** Store in a dry place. Protect from atmospheric moisture.

**Handling Procedures:** Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80°F, 27°C). Avoid contact with eyes, skin, and clothing. Do not swallow. Wash thoroughly after handling. Keep container tightly closed. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Regulatory Exposure limit(s):** As listed below

Component	OSHA Final PEL TWA	OSHA Final PEL STEL	OSHA Final PEL Ceiling
Particulates not otherwise regulated	TWA 15 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (respirable)	-----	-----

**OEL:** Occupational Exposure Limit; **OSHA:** United States Occupational Safety and Health Administration; **PEL:** Permissible Exposure Limit; **TWA:** Time Weighted Average; **STEL:** Short Term Exposure Limit

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**Non-Regulatory Exposure limit(s):** As listed below

Component	CAS Number	ACGIH TWA	ACGIH STEL	ACGIH Ceiling	OSHA TWA (Vacated)	OSHA STEL (Vacated)	OSHA Ceiling (Vacated)
Particles Not Otherwise Specified (PNOS)	Not Assigned	TWA 10 mg/m <sup>3</sup> (inhalable)  TWA 3 mg/m <sup>3</sup> (respirable)	-----	-----	-----	-----	-----

- The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits shown in the table are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).

- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

**Additional Advice:** Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

**ENGINEERING CONTROLS:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

## PERSONAL PROTECTIVE EQUIPMENT:

**Eye Protection:** Wear safety glasses with side-shields. For dusty operations or when handling solutions of the material, wear chemical goggles.

**Skin and Body Protection:** Wear clean, body-covering clothing.

**Hand Protection:** Use gloves chemically resistant to this material. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Neoprene, Polyvinyl chloride ("PVC" or "vinyl"), Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: High efficiency particulate air (HEPA) N95. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical State:</b>	Pellets
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Freezing Point/Range:</b>	Not applicable to solids
<b>Melting Point/Range:</b>	772 °C (1,422 °F) Literature Approximately
<b>Decomposition Temperature:</b>	Not applicable
<b>Vapor Pressure:</b>	Literature negligible at ambient temperature
<b>Vapor Density (air=1):</b>	Not applicable
<b>Specific Gravity (water=1):</b>	Not applicable to solids
<b>Bulk Density:</b>	58 - 66 lb/ft <sup>3</sup> Estimated
<b>Water Solubility:</b>	Readily soluble
<b>pH:</b>	Not applicable to solids
<b>Flash point:</b>	Not applicable
<b>Lower Flammability Level (air):</b>	Not applicable
<b>Upper Flammability Level (air):</b>	Not applicable
<b>Autoignition Temperature:</b>	Not applicable
<b>Hygroscopic:</b>	Yes

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## 10. STABILITY AND REACTIVITY

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**Reactivity/ Stability:** Stable. Hygroscopic.

**Conditions to Avoid:** None known. Avoid moisture.

**Incompatibilities/ Materials to Avoid:** Heat is generated when mixed with water. Spattering and boiling can occur. Avoid contact with: Sulfuric acid. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as: Zinc. Sodium. Reaction of bromide impurity with oxidizing materials may generate trace levels of impurities such as bromate

**Hazardous Decomposition Products:** Does not decompose

**Hazardous Polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### TOXICITY DATA:

**LD50 Oral:** Typical for this family of materials. LD50, Rat 918 - 1,668 mg/kg

**LD50 Dermal:** For the major component(s): LD50, Rabbit > 5,000 mg/kg

### **CHRONIC TOXICITY:**

For the minor component(s): Potassium chloride - In animals, effects have been reported on the following organs after ingestion: Gastrointestinal tract, Heart, and Kidney. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. Medical experience with sodium chloride has shown a strong association between elevated blood pressure and prolonged dietary overuse. Related effects could occur in the kidneys.

**CARCINOGENICITY:** This product is not classified as a carcinogen by NTP, IARC or OSHA.

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**MUTAGENIC DATA:** The data presented are for the following material: Calcium chloride (CaCl<sub>2</sub>) - In vitro genetic toxicity studies were negative. The data presented are for the following material: Potassium chloride - In vitro genetic toxicity studies were positive. However, the relevance of this to humans is unknown. For the minor component(s): Sodium chloride - In vitro genetic toxicity studies were predominantly negative.

**DEVELOPMENTAL TOXICITY:** For the major component(s): Did not cause birth defects or any other fetal effects in laboratory animals.

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## 12. ECOLOGICAL INFORMATION

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### ECOTOXICITY DATA:

- **Aquatic Toxicity:**  
Material is practically non-toxic to aquatic organisms on an acute basis  
(LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested)
- **Freshwater Fish Toxicity:**  
Calcium Chloride: LC50, bluegill (*Lepomis macrochirus*): 8,350 - 10,650 mg/l  
Potassium Chloride: LC50, rainbow trout (*Oncorhynchus mykiss*), 96 h: 4,236 mg/l  
Sodium Chloride: LC50, fathead minnow (*Pimephales promelas*): 10,610 mg/l
- **Invertebrate Toxicity:**  
Calcium Chloride: LC50, water flea *Daphnia magna*: 759 - 3,005 mg/l  
Potassium Chloride: EC50, water flea *Daphnia magna*, 24 h, immobilization: 590 mg/l  
LC50, water flea *Ceriodaphnia dubia*, 96 h: 3,470 mg/l  
Sodium Chloride: LC50, water flea *Daphnia magna*: 4,571 mg/l
- **Algae Toxicity:**  
Sodium Chloride: IC50, OECD 209 Test; activated sludge, respiration inhibition: > 1,000 mg/l

### FATE AND TRANSPORT:

**BIODEGRADATION:** Biodegradation is not applicable.

**BIOCONCENTRATION:** No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (Koc between 0 and 50). Partitioning from water to n-octanol is not applicable.

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## 13. DISPOSAL CONSIDERATIONS

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Reuse or recycle if possible. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Report spills if applicable. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE 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: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Landfill and waste water treatment system.

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## 14. TRANSPORT INFORMATION

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### U.S. DOT 49 CFR 172.101:

Status: Not regulated

### CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

Status: Not regulated

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## 15. REGULATORY INFORMATION

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### U.S. REGULATIONS

- **OSHA REGULATORY STATUS:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

- **CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.

- **EPCRA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):** Not regulated

- **EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):**

Acute Health Hazard

- **EPCRA SECTION 313 (40 CFR 372.65):**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

- **OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):** Not regulated

### NATIONAL INVENTORY STATUS

- **U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA):** All components are listed or exempt

- **TSCA 12(b):** This product is not subject to export notification

- **Canadian Chemical Inventory:** Canadian Chemical Inventory:

### STATE REGULATIONS

**California Proposition 65:** This product is not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. **WARNING:** This product (when used in aqueous formulations with a chemical oxidizer such as ozone) may react to form calcium bromate, a chemical known to the State of California to cause cancer.

Calcium chloride	
California Proposition 65 Cancer WARNING:	Not Listed

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Calcium chloride		
	California Proposition 65 CRT List - Male reproductive toxin:	Not Listed
	California Proposition 65 CRT List - Female reproductive toxin:	Not Listed
	Massachusetts Right to Know Hazardous Substance List	Not Listed
	New Jersey Right to Know Hazardous Substance List	Not Listed
	New Jersey Special Health Hazards Substance List	Not Listed
	New Jersey - Environmental Hazardous Substance List	Not Listed
	Pennsylvania Right to Know Hazardous Substance List	Not Listed
	Pennsylvania Right to Know Special Hazardous Substances	Not Listed
	Pennsylvania Right to Know Environmental Hazard List	Not Listed
	Rhode Island Right to Know Hazardous Substance List	Not Listed
Potassium Chloride		
	California Proposition 65 Cancer WARNING:	Not Listed
	California Proposition 65 CRT List - Male reproductive toxin:	Not Listed
	California Proposition 65 CRT List - Female reproductive toxin:	Not Listed
	Massachusetts Right to Know Hazardous Substance List	Not Listed
	New Jersey Right to Know Hazardous Substance List	Not Listed
	New Jersey Special Health Hazards Substance List	Not Listed
	New Jersey - Environmental Hazardous Substance List	Not Listed
	Pennsylvania Right to Know Hazardous Substance List	Not Listed
	Pennsylvania Right to Know Special Hazardous Substances	Not Listed
	Pennsylvania Right to Know Environmental Hazard List	Not Listed
	Rhode Island Right to Know Hazardous Substance List	Not Listed
Sodium chloride		
	California Proposition 65 Cancer WARNING:	Not Listed
	California Proposition 65 CRT List - Male reproductive toxin:	Not Listed
	California Proposition 65 CRT List - Female reproductive toxin:	Not Listed
	Massachusetts Right to Know Hazardous Substance List	Not Listed
	New Jersey Right to Know Hazardous Substance List	Not Listed
	New Jersey Special Health Hazards Substance List	Not Listed
	New Jersey - Environmental Hazardous Substance List	Not Listed
	Pennsylvania Right to Know Hazardous Substance List	Not Listed
	Pennsylvania Right to Know Special Hazardous Substances	Not Listed
	Pennsylvania Right to Know Environmental Hazard List	Not Listed
	Rhode Island Right to Know Hazardous Substance List	Not Listed

## CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

## WHMIS - Classifications of Substances:

- D2B - Poisonous and Infectious Material; Materials causing other toxic effects - Toxic material



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## 16. OTHER INFORMATION

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**Prepared by:** OxyChem Corporate HESS – Product Stewardship

**Disclaimer:**

A calcium chloride product - Snow and ice melting. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use in Section 1 of this SDS, please contact your sales or technical service representative.

This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

**HMIS: (SCALE 0-4)** (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)

<b>Health:</b>	2	<b>Flammability:</b>	0	<b>Reactivity:</b>	0
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**NFPA 704 - Hazard Identification Ratings (SCALE 0-4)**

<b>Health:</b>	1	<b>Flammability:</b>	0	<b>Reactivity:</b>	0
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**Reason for Revision:**

- Three year review
- Updated the (M)SDS header
- Updated 24 Hour Emergency Telephone Number: SEE SECTION 1
- Format change to sections: .?
- Modified Exposure Limit Information: SEE SECTION 8
- Revised Canadian Domestic Substance List language: SEE SECTION 15
- Revised California Proposition 65 Statement: SEE SECTION 15
- Revised Preparer Information: SEE SECTION 16
- Added "End of Safety Data Sheet" phrase

**IMPORTANT:**

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and OxyChem assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees.

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**End of Safety Data Sheet**

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