Initial Preparation Date: ***7/15/1996***
Last Revision Date: ***None***
Effective Date: ***8/1/2005***

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY: ULTRA MELT™ PREMIUM CONCENTRATED ICE REMOVER

1. CHEMICAL PRODUCT & COMPANY INFORMATION

OLD WORLD INDUSTRIES, INC.
4065 COMMERCIAL AVENUE
NORTHBROOK, ILLINOIS 60062
PHONE: 847-559-2000
EMERGENCY PHONE: 800/424-9300 (CHEMTREC)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names: Calcium Chloride

Chemical Family: Salt

Synonym: Ice melting compound; salt pellets

Description:

MATERIAL	***CAS#***	***% BY WT***
Calcium Chloride	010043-52-4	90 - 92
Sodium Chloride	007647-14-5	1 - 2
Potassium Chloride	007447-40-7	2 – 3
Strontium Chloride	0010476-85-4	1
Water	007732-18-5	2 – 6

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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

POTENTIAL HEALTH EFFECTS

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 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 irritation of the mouth, throat and gastrointestinal tract.

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 MEASURES
Ensure physician has access to this MSDS.

TREATMENT

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 medial attention**. Do not induce vomiting unless directed to do so by medical personnel.

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

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

5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION HAZARD DATA

Flammable Properties
Flash Point: Not applicable
Method Used: No applicable

Flammability Limits
LFL: Not applicable
UFL: Not applicable

Hazardous Combustion Products: None

Other Flammability Information: None

Extinguishing Media: Non-combustible

Fire Fighting Instructions: Keep unnecessary people away; isolate hazard area and deny unnecessary entry.

Protective Equipment For Fire Fighters: Wear positive-pressure, self-contained breathing apparatus and full protective equipment

6. ACCIDENTAL RELEASE MEASURES

Protect People: Isolate and confine spill area. Spills may be a slipping hazard. Wear appropriate safety apparel during cleanup.

Protect the Environment: Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment. Avoid entry of large amounts of product into sewers, natural waters and drinking water sources.

Cleanup: Spills should be collected to prevent contamination of waterways. Dike spill and recover quickly into suitable containers if reusing; or collect using absorbent material or sand. Small quantities may be flushed away with plenty of water. Walking surfaces may remain wet longer due to moisture being held by spilled product—avoid by thoroughly water washing surfaces.

7. HANDLING AND STORAGE

Handling: USE COOL WATER (TEMPERATURE LESS THAN 80° F, 27° C) WHEN DISSOLVING CALCIUM CHLORIDE. HEAT DEVELOPED BY SOLUTIONS IS VERY HIGH DURING MIXING. Leather clothing and shoes will be damaged by calcium chloride. Avoid eye and prolonged skin contact.

Storage: When exposed to the atmosphere, calcium chloride will pick up water and form a solution.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 respirator.

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, face shields, 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 scratched or cut, use gloves impervious to this material even for brief exposures.

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

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

EXPOSURE LIMITS

Component	**Exposure Limits**
Calcium Chloride	10 mg/m3
Sodium Chloride	10 mg/m3
Potassium Chloride	10 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: White to off-white solid pellets
Odor: None
Boiling Point: 198°C (388°F)
Specific Gravity: 2.2
Vapor Pressure: 0.009 mmHg @ 20°C (70°F)
Vapor Density: Not applicable
Water Solubility: Very soluble
Melting Point:

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal handling and storage conditions

Conditions to Avoid: See "Incompatibility" section below.

Incompatibility with Other Materials (Materials to Avoid): Calcium chloride will accelerate corrosion of most metals exposed to air; attack aluminum (and most of its alloys) and yellow brass; react with sulfuric acid to form hydrogen chloride, which is corrosive, irritating and reactive; give an exothermic reaction with water-reactive materials such as sodium; result in runaway polymerization reaction with methyl vinyl ether (Bretherick, 979); and in solution form react with zinc (galvanizing) to yield hydrogen gas, which is explosive (Ibid.). (Bretherick, L., 1979, *Handbook of Reactive Chemical Hazards*, 2nd ed.)

Hazardous Decomposition Products: Not applicable

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Acute

Skin: The LD50 for skin absorption in rabbits is >5000 mg/kg for CaC12.

Ingestion: The oral LD50 for rats is 967 – 1668 mg/kg for CaC12 (100% basis).

Mutagenicity (The Effects On Genetic Material): For CaC12, in vitro mutagenicity studies were negative.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

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

Degradation & Persistence: Inhibitory concentration (LC50) in OECD "Activated Sludge, Respiration Inhibition Test" (Guideline #209) is greater than 1000 mg/L.

Ecotoxicology: Based largely or completely on data for major components. Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species). Acute LC50 for bluegill (Lepomis macrochirus) is 8400-10650 mg/L. Acute LC50 for mosquito fish (Gambusia affinis) is 13400 mg/L at 96 hours. Algal growth inhibition EC50 is 3130 mg/L in Nitzschia linearis at 120 hours. Acute LC50 for unspecified marine fish is 2400 mg/L at 48 hours. Acute LC50 for water flea (Daphnia magna) is 759-3005 mg/L at 48 hours.

13. DISPOSAL CONSIDERATIONS

All disposal practice must be in compliance with all federal, state/provincial and local laws and regulations. State/provincial and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations.

Product as sold is not a RCRA hazardous waste when disposed.

Refer to 40 CFR Section 261 and/or any other appropriate federal, state, provincial or local requirements for proper classification information.

14. TRANSPORT INFORMATION

Proper Shipping Class: Ice Melting Compounds (50); this product is currently not DOT regulated.

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, expressed 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 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.

THIS PRODUCT CONTAINS COMPONENT(S) CITED ON THE FOLLOWING REGULATIONS:

U. S. REGULATIONS

United States Toxic Substances Control Act (TSCA) Inventory: All ingredients are on the TSCA.

CAS NUMBER
010043-52-4
007647-14-5
007447-40-7
010476-85-4
007732-18-5

SARA Title III: 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 effects on the eye.

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

OSHA:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA): 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 this MSDS for specific warnings and safe handling information. Refer to 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);

Component	CAS #	Amount (% WT)
Calcium Chloride	010043-52-4	90 – 92%

16. OTHER INFORMATION

Contact: Thomas Cholke **Phone**: (847) 559-2225

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