

INSTAHEET™

Material Safety Data Sheet

Calcium Chloride Food Grade

SECTION 1: CHEMICAL PRODUCT

SUBSTANCE: Calcium Chloride

TRADE NAMES/SYNONYMS: Briners Grade, Express®, FCC Dry Food Grade Calcium Chloride, Ice Blaster®, WaterShield™, Winter Thaw™

CHEMICAL FAMILY: Inorganic Salt

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENTS Calcium Chloride

PERCENTAGE 74-100%

PROBABLE CONTAMINANTS: Calcium Carbonate, Calcium Hydroxide, Calcium Oxide, Alkali Metal Chlorides, Alkaline Earth Metal Chlorides

SECTION 3: HAZARDS IDENTIFICATION

NFPA RATINGS: (0-4): Health – 1 Fire – 0 Reactivity – 1

EMERGENCY OVERVIEW: Odorless, white pellets/flake. Causes eye irritation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly after handling. Reacts with water to liberate heat.

POTENTIAL HEALTH EFFECTS:

INHALATION, SKIN CONTACT, EYE CONTACT: May causes irritation

INGESTION: May causes nausea.

SECTION 4: FIRST AID MEASURES

INHALATION: Remove from exposure area to fresh air.

SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.

EYE CONTACT: Flush eyes with large amounts of water or normal saline solution.

INGESTION: Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD: Negligible fire hazard when exposed to heat or flame.

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use

water spray, fog or regular foam (1996 North American Emergency Response Guidebook, RSPA P 5800.7)

FIRE FIGHTING: Move container(s) from fire area if you can without risk. Apply cooling water to sides of

containers that are exposed to flames until well after fire is out. Extinguish fire using agent suitable for type of

surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing corrosive vapors

keep upwind. Dike area to prevent runoff and contamination of water sources.

HAZARDOUS COMBUSTION PRODUCTS: Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL: For dry spills place material in covered, clean, dry container for disposal.

SECTION 7: HANDLING AND STORAGE

Observe all federal, state and local regulations when storing this product. Store in a tightly closed container. Store away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS: No occupational exposure limits established by OSHA/ACGIH/NIOSH.

VENTILATION: Provide local exhaust ventilation system.

EYE PROTECTION: Wear safety glasses with splash shields or safety goggles/shield.

CLOTHING: Wear appropriate protective (impervious) clothing.

GLOVES: Wear appropriate protective gloves.

RESPIRATOR: Use of a NIOSH approved respirator should be based on contamination levels in the workplace or situation. When warranted, use a face mask particulate respirator with a NIOSH N95 rating such as Moldex 2800N95, MSA 816581 or 3M 8576PN5 or equivalent.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION: Odorless, white pellets/flake

FORMULA: $\text{CaCl}_2 \cdot n\text{H}_2\text{O}$ n = 0.0 – 2.2

MOLECULAR WEIGHT: 111.0 – 150.0

MELTING POINT: 369°F (187°C) - 1424°F (773°C)

SPECIFIC GRAVITY: 2.15 @ 77°F (25°C)

WATER SOLUBILITY: 40% @ 68°F (20°C) with evolution of heat

SOLVENT SOLUBILITY: Soluble in alcohol, acetic acid and acetone

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Reacts exothermically with water.

INCOMPATIBILITIES: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION: None, under normal condition.

POLYMERIZATION: Does not occur under normal temperatures and pressures.

CONDITIONS TO AVOID: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY DATA: (ANHYDROUS CALCIUM CHLORIDE)

TD_{LO} : 112g/kg. oral. 20 weeks, rat

LD_{LO} : 274mg/kg, subcutaneous, dog

LD₅₀ : 1000mg/kg, oral, rat

LD₅₀ : 264mg/kg, intraperitoneal, rat

Mutagenic data and tumorigenic data-see Registry of Toxic Effects of Chemical Substances (RTECS) file.

CARCINOGEN STATUS: None.

LOCAL EFFECTS: Eye, mucous membrane and skin irritant.

ACUTE TOXICITY LEVEL: Moderately toxic by ingestion, slightly toxic by dermal absorption.

SECTION 12: ECOLOGICAL INFORMATION

DEGRADABILITY: Product will not biodegrade or bioaccumulate.

SECTION 13: DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this substance.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name-ID Number: Non-regulated.

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Yes

OTHER TSCA ISSUES: None

SARA 311 CLASSIFICATION: Acute Hazard

Reactivity Hazard

DSL STATUS: Yes

EINECS STATUS: Yes

CALIFORNIA PROPOSITION 65: No ingredients found on the Propositions 65 list