

Item # 36039

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REPORT NUMBER: 703
MSDS NO: GC001002
EFFECTIVE DATE: 11/23/92

VAN WATERS & ROGERS INC.
MATERIAL SAFETY DATA SHEET

PAGE: 001

VERSION: 002

PRODUCT: CALCIUM CHLORIDE, FLAKE

ORDER NO: 362537
PROD NO : 607619

NAR ENTERPRISES
5006 85TH AVE E
BLDG 'F' UNIT 9

PUYALLUP ,WA 99371

VAN WATERS & ROGERS INC. , SUBSIDIARY OF UNIVAR (206)889-3400
6100 CARILLON POINT , KIRKLAND , WA 98033

----- EMERGENCY ASSISTANCE -----

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMTREC
(800)424-9300

----- FOR PRODUCT AND SALES INFORMATION -----

CONTACT YOUR LOCAL VAN WATERS & ROGERS BRANCH OFFICE AT
VW&R KENT 206-872-5000 KENT , WA

PRODUCT NAME:
CALCIUM CHLORIDE, FLAKE

MSDS #: GC001002

A. GENERAL INFORMATION

TRADE NAME (COMMON NAME): FLAKE CALCIUM CHLORIDE
POWDERED CALCIUM CHLORIDE

C.A.S. No. 10043-52-4 (anh.)

CHEMICAL NAME AND/OR SYNONYM: Calcium Chloride, Dihydrate

FORMULA: CaCl₂ · 2H₂O

MOLECULAR WEIGHT: 147.02

ADDRESS: GENERAL CHEMICAL CORPORATION

90 East Halsey Road

Parsippany, NJ 07054-0389

GCC CONTACT: Manager of Product Safety

GCC PHONE NUMBER: (201) 515-1840

CURRENT ISSUE DATE: May, 1990

B. FIRST AID MEASURES

GCC EMERGENCY PHONE NUMBER: (800) 631-8050

EYES: Flush promptly with plenty of water, continuing for at least 15
minutes. Get medical attention.

INHALATION: Remove to fresh air.

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SKIN: Wash with plenty of soap and water.
INGESTION: If conscious, immediately give 2 to 4 glasses of water, and induce vomiting by touching finger to back of throat.
Get medical attention for irritation, ingestion, or discomfort from inhalation.

C. HAZARDS INFORMATION

HEALTH -

INHALATION: Dust or mist inhalation may irritate nose, throat, and lungs.
INGESTION: Low in toxicity. LD50 (rat): 1.4 g/kg.* --- Reference (e).
May irritate gastrointestinal tract. * anhydrous basis
SKIN: May cause skin irritation. Under conditions of prolonged contact or when moisture is present, superficial burns may result. Contact with abraded skin or cuts can cause severe necrosis.
EYES: May irritate or burn eyes.
PERMISSIBLE CONCENTRATION: AIR: (SEE SECTION J)
None established by OSHA.
Also, no TLV established by ACGIH.
BIOLOGICAL: None.

UNUSUAL CHRONIC TOXICITY: None.

FIRE AND EXPLOSION -

FLASH POINT: Not flammable.
AUTO IGNITION TEMPERATURE: NA
FLAMMABLE LIMITS IN AIR (% BY VOL.): LOWER - NA UPPER - NA
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

D. PRECAUTIONS/PROCEDURES

FIRE EXTINGUISHING AGENTS RECOMMENDED: NA
FIRE EXTINGUISHING AGENTS TO AVOID: NA
SPECIAL FIRE FIGHTING PRECAUTIONS: None.
VENTILATION: Local exhaust: In packaging and unloading areas, over open processing equipment, and any other places where dusty or misty condition prevails.
Natural ventilation: Adequate for other areas.
NORMAL HANDLING: Avoid contact with eyes, skin, or clothing. Avoid breathing dust or mist. Use good personal hygiene and housekeeping.
STORAGE: Store in a cool, dry area. Prolonged storage may cause product to cake and become wet from atmospheric moisture.
SPILL OR LEAK (ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT - SECTION E):
Shovel up dry chemical and place in metal drum with a cover. Cautiously spray with plenty of water.
SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS: SIGNAL WORD - WARNING!

E. PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: For dusty or misty condition, wear NIOSH-approved

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dust or mist respirator.

EYES AND FACE: For dusty or misty condition, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hat. Under these conditions, do not wear contact lenses.

HANDS, ARMS, AND BODY: As a minimum, wear long-sleeve shirt and trousers, boots, and gloves for routine product use. Cotton gloves permitted for dry product, impervious gloves when using solutions.

OTHER CLOTHING AND EQUIPMENT: Eye-wash facility.

F. PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS): SOLID

APPEARANCE AND ODCR: Small white flakes; odorless.

BOILING POINT: Unknown

MELTING POINT: 176 Degrees C

SPECIFIC GRAVITY (H2O=1): 0.935 -Reference (b)

VAPOR DENSITY (AIR=1): NA; water vapor only.

SOLUBILITY IN WATER (% by Weight): 42(anhydrous) @ 20 Degrees C

pH: Neutral or slightly alkaline -Reference (c)

VAPOR PRESSURE (mm Hg at 20 Degrees C): NA

EVAPORATION RATE (Ether=1): NA (Butyl Acetate = 1): NA

% VOLATILES BY VOLUME (At 20 Degrees C): NA

G. REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: NA

INCOMPATIBILITY (MATERIALS TO AVOID): Sulfuric acid: yields hydrogen chloride gas, which is corrosive, irritating, and reactive. Water-reactive materials, such as sodium: cause an exothermic reaction. Methyl vinyl ether: starts runaway polymerization reaction--Reference (d). Zinc as in galvanized iron: yields hydrogen gas with solutions, which may explode under these conditions. --Reference (d).

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NA

H. HAZARDOUS INGREDIENTS (Mixtures Only)

MATERIAL OR COMPONENT/C.A.S. #: NA

I. ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY:

Aquatic Toxicity: TLm96: over 1000 ppm (anhydrous)--Reference (a).

OCTANOL/WATER PARTITION COEFFICIENT: ND

EPA HAZARDOUS SUBSTANCES (CLEAN WATER ACT SEC. 311): NO

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IF SO REPORTABLE QUANTITY: -- (40 CFR 116-117)
WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS): Dissolve in water using caution as solution can get very hot. Flush to sewer with plenty of water if permitted by applicable disposal regulations. Waste may have to be disposed of by an approved contractor.
RCRA STATUS OF UNUSED MATERIAL IF DISCARDED: Not a "hazardous waste":
HAZARDOUS WASTE NUMBER: (IF APPLICABLE): NA (40 CFR 261)

J. REFERENCES

PERMISSIBLE CONCENTRATION REFERENCES: None.
REGULATORY STANDARDS: None.
D.O.T. CLASSIFICATION: Not regulated (49 CFR 173)
GENERAL:

- (a) NIOSH, REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, 1979, Accession No. EV 98 00 000.
- (b) Weast, R.C. editor, CRC HANDBOOK OF CHEMISTRY AND PHYSICS, 60th Edition, 1979-80, CRC Press, Inc., Boca Raton 33431.
- (c) Hawley, G.N., editor, CONDENSED CHEMICAL DICTIONARY, 9th Edition, 1977, Van Nostrand Reinhold, NYC.
- (d) Bretherick, L., HANDBOOK OF REACTIVE CHEMICAL HAZARDS, 2nd. Edition, 1979, Butterworths, Boston.
- (e) General Chemical Corporation tests, unpublished. (The medium was a solution of 25 g/100 ml water.)

K. ADDITIONAL INFORMATION

None.

FOOTNOTE: ND = NOT DETERMINED NA = NOT APPLICABLE
* = PROPRIETARY - TRADE SECRET

