# Ward Chemical Inc. 6015 - 103A ST. EDMONTON AB. CANADA T6H 2J7 Ph(780)436-4832 Fax(780)436-3780 www.wardchem.com

# CALCIUM CHLORIDE BRINE

# "V Grade 1310

### Low Iron

## TYPICAL SPECIFICATIONS

FREEZE POINT	Density1.31 kilograms per liter	ph	FE	POTASSIUM CHLORIDE	SODIUM CHLORIDE	MAGNESIUM CHLORIDE	CALCIUM CHLORIDE
-45 DEG C.	ns per liter	7.0 - 8.0	+/- 2 ppm	1.0%	2.0%	3.0%	27.0 – 28.0%

## NON REGULATED.

# W1.31 LOW IRON. txt CHLORIDE SOLUTION

WARD CHEMICAL INC.
MATERIAL SAFETY DATA SHEET CALCIUM

Lauren To a 1.31 CALCIUM CHEORIDE Brite

General Information

INC. STREET

Name: WARD CHEMICAL Street: 6015 - 103A City: EDMONTON Province: Alberta

Country: Canada
Postal Code: T6H 2J7
Postal Code: T6H 2J7
Emerg Ph #: 780-940-1133
Info Ph #: 780-436-4832
Date MSDS Prepared: 04MAR02
Safety\_Data\_Review\_Date: 15Mar12

Ingredients/Identity Information

Ingredient: CALCIUM CHLORIDE
Percent: 27-28
NIOSH (RTECS) Number: EV9800000
CAS Number: 10043-52-4
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE
OTHER RECOMMENDED LIMIT: 10 MG/M3 (N (MFR)

Ingredient:Magnesium Chloride Percent: 3%

TS8050000

Percent: 3%
NIOSH (RTECS) Number: TS8
CAS Number: 7447-40-7
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE APPLICABLE

Ingredients: Sodium Chloride/ Potassium Chloride Percent: 3-4
NIOSH (RTECS) Number: VZ4725000
CAS Number: 7647-14-5
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Ingredient: WATER 64-66

ZC0110000

Percent: 64-66
NIOSH (RTECS) Number:
CAS Number: 7732-18-5

NOT APPLICABLE APPLICABLE

Physical/Chemical Characteristics

BRINE SOLUTION

Appearance And Odor: CLEAR LIQUID BRIN Boiling Point: 230F,160C Vapor Pressure (MM Hg/70 F): SAME/H2\*0 Vapor Density (Air=1): 7-15@25C Specific Gravity: 1.32(20 C) Solubility In Water: COMPLETELY MISCIBLE SOLUTION CONTRACTOR CONTRA MISCIBLE

Fire and Explosion Hazard Data

Flash Point: NOT APPLICABLE Lower Explosive Limit: N/A Upper Explosive Limit: N/A Extinguishing Media: NON-CO NON-COMBUSTIBLE

special SCBA. Ξ. Te Fighting Proc: WEAR HSOIN LOW IRON.txt /MSHA APPROVED POSITIVE PRESSURE

Unusual Fire And Expl Hazrds: NO NE SPECIFIED BY MANUFACTURER

## Reactivity Data

Stability: \Cond To Avo ty: YES MANUFACTURER.

Cond To Avoid (Stability): NONE SPECIFIED BY MATERIALS TO AVOID: METALS WILL SLOWLY CORR I ALLOYS) AND YELLOW BRASS AND STAINLESS STEEL HAZARDOUS DECOMP PRODUCTS: NOT APPLICABLE HAZARDOUS POly Occur: NO IN AQU SOLN. WILL 8 E OLN. ALUMINUM(AND ITS ATTACKED BY CALCTUM CHLORIDES

Conditions d y occur: Avoid ( (Poly): NONE SPECIFIED ВΥ MANUFACTURER

#### Health Hazard Data

LD50-LC50 Route of E Mixture: : ORAL(RAT)900-Inhalation: YES 2100MG/KG 100% CACL2

Entry -Entry -

Route 앜 skin:

ROUTE OF ENTRY - Ingestion: NO
Health Haz Acute And Chronic: EYE:MOD/SEVERE EYE IRRIT W/CORNEAL INJURY
MAY BE SLOW TO HEAL AT HIGH TEMPS, MATERIAL HAS MORE INTENSE EFTS AND
THERMAL BURNS POSSIBLE. SKIN:RPTD EXPOSURE MAY CAUSE SKIN IRRIT, EVEN
THERMAL BURNS POSSIBLE. SKIN:RPTD EXPOSURE MAY CAUSE SKIN IRRIT, EVEN
THERMAL BURNS POSSIBLE. SKIN:RPTD EXPOSURE MAY CAUSE SKIN IRRIT, EVEN
THERMAL BURNS POSSIBLE. SKIN:RPTD TO SKIN OR SKIN IS SCRATCHED/CUT.
INGEST: MAY CAUSE GI IRRIT OR ULCERATION. (SEE EFTS OF OVEREXP)

Carcinogenicity - NTP: NO
Carcinogenicity - OSHA: NO
Carcinogenicity - NTP: NO
Carcinogenicity - NTP: NO
Carcinogenicity - OSHA: NO
Carcinogenicity - NTP: NO
Carcinogenicity STICKING FINGER

### Precautions φ Safe Handling and Use

Steps If SURFACES MATI Released/Spill: FLUSH AREA W/PLENTY MAY REMAIN WET LONGER DUE TO MOISTURE BE: BEING 유 WATER. W WALKING Y SPILLED

MATERIAL

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
WASTE Disposal Method: WASH AWAY WITH LARGE EXCESS OF WATER. KEEP OUT OF
DRINKING WATER SOURCES. COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS
PRECAUTIONS-HANDLING/Storing: MAY SOMETIMES BE SHIPPED HOT, WHICH MAY
CAUSE THERMAL BURNS & INTENSE CHEM IRRIT OR BURN. AVOID EYE & PROLONGED

Other Precautions: CHLORIDE SOLUTION. SKIN CONTACT. Other Precaut CLOTHING 2ο· ALWAYS USE COOL W/ HEAT DEVELOPED BY SHOES WILL BE DAM/ COOL WATER (TEMP) DAMAGED ВΥ EMP <80F) WHEN DILUTING ONS IS VERY HIGH DURING CALCIUM CHLORIDE. CALCIUM MIXING.

#### Control Measures

Respiratory Protection:
ADDITIONAL GUIDANCE IS
CALCIUM CHLORIDE.
Ventilation: GENERAL AN : CONSULT I LOCAL, CAL/SAFETY 8 HEALTH AUTHORITIES
OSHA PEL OR ACGIH 검부 FOR

AND/OR LOCAL **EXHAUST** 딩 CONTROL **AIRBORNE LEVELS** BELOW

EXPOSURE GUILDLINES. Protective Gloves: I CHEM IMPERVIOUS GLOVES WASH AS FOUNT REQUIRED (FP HMD

W1.31 LOW IRON. TXT
Other Protective Equipment: USE PROTECTIVE CLOTHING IMPERVIUOS TO THIS
MATERIAL, GLOVES, BOOTS, APRON OR FULL-BODY SUIT WILL DEPEND ON OPERATION.
WORK HYGIERIC PRACTICES: IF SKIN COMES IN CONTACT W/CONTAIM CLOTHING.
REMOVE COTHING IMMED, WASH SKIN AREA W/SOAP & WATER, LAUNDER CLOTHING.
SUPPI. Safety & Health Data: FIRST AID PROC: NOTE TO PHYSICIAN: SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS
OF THE PATIENT.

## Transportation Data

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION Additional Trans Data: NOT REGULATED FOR TRANSPORTATION

## Disposal Data

Disposal mustcomply with local environmental regulations

#### Label Data

15Mar12

BRINE SOLUTION

Label Required: NO
Technical Review Date: 15Marl:
Common Name: CALCIUM CHLORIDE
Acute Health Hazard-Slight: X
Contact Hazard-Severe: X

Fire Hazard-None: X
Reactivity Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE:AVOID EYE AND PROLONGED SKIN CONTACT.
Special Hazard Precautions: ACUTE:AVOID EYE AND PROLONGED SKIN CONTACT.
CAUSES SKIN BURNS. DO NOT GET ON SKIN AND CLOTHING. AVOID BREATHING MIST.
KEEP CONTIANER CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. MAY CAUSE RESPIRATORY TRACT IRRITATION.DO NOT INGEST. MAY CAUSE IRRITATION/ULERATION.CHRONIC: HAZARDS NOT DETERMINED.

Protect Protect Eye: Protect Skin: