SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SDS REVISION #: 003

PRODUCT IDENTIFIER:	Calcium chloride (35%)
OTHER IDENTIFIERS:	Calcium dichloride
CHEMICAL FORMULA:	$CaCl_2$
RELEVANT USES:	Freeze conditioning, dust control
DISTRIBUTED BY:	Freedom Industries, Inc. 1015 Barlow Drive Charleston, WV 25311
PHONE NUMBERS:	Business - (304) 720-8065 (business hours) CHEMTREC - (800) 424-9300 (transportation emergencies)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:
Eye irritant (Category 2)

SIGNAL WORD:
Warning!

HAZARD STATEMENTS:
Causes serious eye irritation

PRECAUTIONARY STATEMENTS:

Prevention
Wash exposed areas thoroughly after handling. Wear eye and face protection.

Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice or attention.

Storage
Not applicable

Disposal
Not applicable

HAZARDS NOT OTHERWISE CLASSIFIED: None

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Component	%	CAS No.
Calcium chloride	33-37	10043-52-4
Water	63-67	7732-18-5

SECTION 4 - FIRST AID MEASURES

IN CASE OF EYE CONTACT:

Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice or attention.

IN CASE OF SKIN CONTACT:

Flush with water.

IF SWALLOWED:

Do NOT induce vomiting. Drink two glasses of water. If irritation or nausea persists, contact a physician.

IF INHALED:

If affected, move to fresh air.

MOST IMPORTANT SYMPTOMS AND EFFECTS:

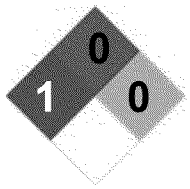
Can cause eye irritation, which may be severe.

NOTE TO PHYSICIAN:

Treat symptomatically

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:



This product contains a large amount of water, and would not normally burn.

EXTINGUISHING MEDIA:

Use water fog, foam, dry chemical or carbon dioxide as appropriate for other materials involved in the fire.

PROTECTION OF FIREFIGHTERS:

Keep personnel removed from and upwind. Wear full protective clothing and self-contained breathing apparatus with full face-piece. Cool containers with water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES:

Persons not wearing protective equipment should be excluded from the area of the spill until clean up has been completed.

CONTAINMENT & CLEAN-UP:

Dike area of spill to prevent spreading and pump liquid to salvage tank. Absorb remaining liquid on vermiculite, floor absorbent or other absorbent material and shovel into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

STORAGE:

Keep in closed or covered containers when not in use. Calcium chloride can cause pitting and corrosion of some grades of stainless steel and under high temperatures and stress conditions can promote stress corrosion cracking.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Not established for product or components

ENGINEERING CONTROLS:

Not required under normal conditions of use.

EYE / FACE PROTECTION:

Chemical splash goggles and full face-shield, in compliance with OSHA regulations, are advised.

SKIN PROTECTION:

Wear protective gloves such as Neoprene or Buna-N.

RESPIRATORY PROTECTION:

Not required under normal conditions of use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear or hazy, colorless or light-yellow liquid @ 68° F (20° C)
Odor: Little or no odor
pH: 8-10 (as is)
Freezing Point: ~20° F (-7° C)
Initial Boiling Point: >212° F (100° C)
Flash Point: >212° F (100° C) PMCC
Evaporation Rate: Slower (Ethyl Ether = 1)
Upper Explosion Limit: Not applicable
Lower Explosion Limit: Not applicable
Vapor Pressure: 17.5 @ 68° F (20° C) (water)
Vapor Density: Unavailable
Relative Density: 1.3-1.4 @ 77° F (25° C)
Weight per gallon: 11.1-11.3
Solubility in Water: 100%
Volatile %: 63-67
Autoignition Temperature: Unavailable
Decomposition Temperature: Unavailable

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY:
Hygroscopic

STABILITY (conditions to avoid):
Stable under normal conditions of 70° F (21° C) and 14.7 psig (760 mm Hg)

POSSIBILITY OF HAZARDOUS REACTIONS:
None known

CONDITIONS TO AVOID:
None known

INCOMPATIBILE MATERIALS:
Avoid contact with strong oxidizing and reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS:
Not anticipated under normal conditions of use.

DECOMPOSITION:
None known

SECTION 11 - TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:
Skin and eye contact

Section 11 continued on next page

SECTION 11 - TOXICOLOGICAL INFORMATION (continued)

SYMPTOMS:

Eyes: Tearing, redness and irritation

Skin: Redness

Breathing: Breathing spray may result in mild respiratory irritation

Swallowing: Nausea

EFFECTS FROM EXPOSURE:

Immediate: Causes eye irritation

Delayed: None known

Chronic: None known

TOXICITY DATA (selected):

Oral LD_{50} (rat) – 2301 mg/kg
Dermal LD_{50} (rabbit) – 5000 mg/kg
Reverse mutation assay – negative
Mammalian chromosomal aberration – negative
Reproductive NOAEL (rabbit) – 169 mg/kg
Developmental studies (rat, mouse & rabbit) - negative

CARCINOGENICITY

This product is not reported to have any carcinogenic effects. This product (or components) is not listed in IARC Monographs, the current NTP Report on Carcinogens or the current ACGIH TLVs as a carcinogen or potential carcinogen. OSHA does not regulate it as a carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:

96-hr. LC_{50} (freshwater fish) – 4630 mg/l
48-hr. EC_{50}/LC_{50} (freshwater invertebrates) – 2400 mg/l
21-day EC_{50}/LC_{50} or NOEC (freshwater invertebrates) – 320 mg/l
72-hr. EC_{50}/LC_{50} (freshwater algae) – 2900 mg/l

PERSISTENCE AND BIODEGRADABILITY

Inorganic salt does not biodegrade, but quickly dissociates in water.

BIOACCUMULATIVE POTENTIAL:

Not bioaccumulative

Section 12 continued on next page

SECTION 12 - ECOLOGICAL INFORMATION (continued)

MOBILITY IN SOIL:
Chloride ions are mobile in soil, eventually draining into surface waters.

PBT & vPvB ASSESSMENT:
Not applicable to inorganic substances.

OTHER ADVERSE EFFECTS:
None known

SECTION 13 - DISPOSAL CONSIDERATIONS

Material that cannot be recovered or reused should be sent to a licensed disposal facility for drying and disposal in a landfill. Material collected on absorbent material may be deposited in a landfill in accordance with all applicable local, state and federal regulations.

This product, if disposed of, is not considered a hazardous waste under current RCRA definitions.

SECTION 14 - TRANSPORT INFORMATION

Not regulated under current U.S DOT, TDG (Canadian), ICAO (air) or IMO (water) transport regulations.

SECTION 15 - REGULATORY INFORMATION

TSCA INFORMATION:
All components in this product are in compliance with TSCA Inventory requirements or exempt from reporting.

EINECS:
All components in this product are on the European Inventory of Existing Chemical Substances (233-140-8).

CEPA:
All components in this product are listed on the Canadian Domestic Substances List (DSL).

WV DEP:
This material is approved for use in WV as a dust suppressant as calcium chloride.

Section 15 continued on next page

SECTION 15 - REGULATORY INFORMATION (continued)

SARA:

CERCLA/SARA 302: Not applicable
CERCLA/SARA 311/312: Acute
CERCLA/SARA 313: Not applicable

SECTION 16 - OTHER INFORMATION

PREPARATION DATE: February 8, 2013
SUPERCEDES: Revision 2 dated July 25, 2007
REASON FOR REVISION: Updated to GHS

The product information contained herein is believed to be accurate as of the date of the Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.

END OF REPORT