

MIDWEST INDUSTRIAL SUPPLY, INC.
P. O. BOX 8431
CANTON, OHIO 44711 U.S.A.

Emergency Phone Numbers: 330-456-3121

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MATERIAL SAFETY DATA SHEET

**SECTION I -- IDENTIFICATION OF SUBSTANCE/PREPARATION AND
COMPANY/UNDERTAKING**

TRADE NAME: FREEZE-FREE® C-30
CHEMICAL NAME: CALCIUM CHLORIDE SOLUTION
SYNONYMS: FREEZE CONDITIONING AGENT
CHEMICAL FAMILY: CHLORIDES
MOLECULAR WEIGHT: N/A
FORMULA: N/A
CAS REGISTRY NO: N/A

SECTION II -- COMPOSITION/INFORMATION ON INGREDIENTS

<u>NAME</u>	<u>CAS REG. NO.</u>	<u>WT. %</u>
CALCIUM CHLORIDE	10043-52-4	0-36%
MAGNESIUM CHLORIDE	7786-30-3	0-34%
SODIUM CHLORIDE	7647-14-5	0-1%

SECTION III -- HAZARDS IDENTIFICATION

CALCIUM CHLORIDE	Irritant
MAGNESIUM CHLORIDE	Irritant
SODIUM CHLORIDE	Irritant

SECTION IV -- FIRST AID MEASURES

EYES: Rinse eyes immediately with large amounts of water for at least 15 minutes, occasionally lifting the eyelids. Get medical attention.

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INHALATION: Remove from exposure area to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected person warm and at rest. Get medical attention.

SECTION IV -- FIRST AID MEASURES (continued)

INGESTION: Do not induce vomiting. Give large amounts of water or milk. Get medical attention.

NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.

SKIN: Wash exposed area twice with soap and water. Exposed area should be examined by medical personnel if irritation or pain persists after the area has been washed.

DECONTAMINATION PROCEDURES: Use emergency shower if available. Remove all contaminated clothing to prevent further absorption. Wash all clothing and exposed area of the body twice with soap and water. Leather shoes that have been saturated should be discarded.

SECTION V -- FIRE FIGHTING MEASURES

FLASH POINT (TEST METHOD): Not Applicable

AUTOIGNITION TEMPERATURE: Not Applicable

EXTINGUISHING MEDIUM: As this material is virtually not-flammable, use proper equipment to fight surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES: Firefighter should wear full protective equipment including positive pressure self-contained breathing apparatus. Use normal firefighting procedures.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

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SECTION VI - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES:

For small spills use suitable absorbent material & collect for later disposal. For large spills, the area may require diking to contain the spill. Material can then be collected (eg. suction) for later disposal. Avoid contamination of drinking water, natural water, ground water or any waterway. Losses incidental to correct industrial use are not expected to be harmful to the environment. Wear appropriate protective equipment during clean-up. After collection of material, flush area with water.

SECTION VII HANDLING AND STORAGE

STORAGE:

Store in a suitable tank or container for chlorides (aluminum and its alloys deteriorate rapidly upon exposure to chlorides and are not recommended.).

HANDLING:

Wear proper clothing and personal protection equipment. Minimize splashing, chlorides can be irritating to eyes and skin.

SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

When necessary, use an air purifying respirator or mist respirator depending on situation.

VENTILATION:

All operations should be conducted in well ventilated conditions.

EYE PROTECTION:

Safety glasses or chemical goggles.

PROTECTIVE CLOTHING:

Impervious gloves, boots, apron or full body suit, depending on operation.

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SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	230 - 251°F
VAPOR PRESSURE mm Hg @ 20°C:	Not Applicable
SPECIFIC GRAVITY OR BULK DENSITY:	1.25 to 1.36
SOLUBILITY IN WATER:	Miscible
APPEARANCE:	Clear to Tan Liquid
ODOR:	Mild Odor
pH:	7.0

SECTION X -- STABILITY AND REACTIVITY

STABLE:	Yes
CHEMICAL INCOMPATIBILITY: exposed to acid.	Flammable hydrogen may be generated when sodium or zinc. Avoid contact with sulfuric
HAZARDOUS DECOMPOSITION PRODUCTS:	Does not decompose.
HAZARDOUS POLYMERIZATION:	None
CONDITIONS TO AVOID:	Mildly corrosive to metals.
CORROSIVE TO METAL:	Mildly corrosive to metals.
OXIDIZER:	Not Applicable.

SECTION XI -- TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE

INHALATION: Vapors are unlikely due to physical properties. Mists may cause irritation to upper respiratory tract.

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SKIN: Short exposures are not likely to cause irritation. Prolonged or repeated exposure may cause skin irritation. It may cause more severe irritation if skin is scratched or abraded.

EYES: May be irritating to the eyes.

INGESTION: Small amounts swallowed incidental to normal handling are not likely to cause injury. Swallowing larger amounts may cause gastrointestinal irritation or ulceration.

SECTION XI -- TOXICOLOGICAL INFORMATION (con't)

TOXICOLOGY:

ACUTE

Skin: LD50 (rabbits) skin absorption is >5000 mg/kg.

Ingestion: LD50 (rats) oral is 900-2100 mg/kg.

MUTAGENIC

(effects on genetic material)
in vitro mutagenicity studies were negative.

SECTION XII -- ECOLOGICAL INFORMATION

Material is practically non-toxic to aquatic organisms (LC50 >50 mg/L in most sensitive species).

SECTION XIII -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of the material in accordance with standard practice for disposal as required by applicable federal, state or local laws.

CONTAINER DISPOSAL: Not Applicable

SECTION XIV -- TRANSPORTATION INFORMATION

D.O.T. PROPER SHIPPING NAME (49CFR172.101): Chloride Rich Aqueous Solution

HAZARDOUS SUBSTANCE (40CFR116): Not Hazardous

REPORTABLE QUANTITY (RQ): Not Applicable

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D.O.T. HAZARD CLASSIFICATION (49CFR172.101): Not Hazardous
D.O.T. LABELS REQUIRED (49CFR172.101): None
D.O.T. PLACARDS REQUIRED: None
POISON CONSTITUENT (49CFR173.343): Not Applicable
BILL OF LADING DESCRIPTION: Freeze Conditioning Agent
C NO.: Not Applicable
UN/NA CODE: Not Applicable

SECTION XV-- REGULATORY INFORMATION

EPA SARA TITLE III hazard class: Immediate health hazard (irritant).
OSHA HCS hazard class: Eye or skin irritant.
EPA SARA TITLE III SECTION 313 (40cfr372)
Toxic Chemicals present in quantities greater than
the "de minimus" level are: None
WHMIS CLASSIFICATION: The Canadian Workplace Hazardous Materials
Information System (WHMIS) Classification: D2B - eye
or skin irritant.

SECTION XVI -- OTHER INFORMATION

ABBREVIATIONS AND SYMBOLS:

N.D. - Not Determined

N.A. - Not Applicable

N.T. - Not Tested

< - LESS THAN

> - MORE THAN

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