

MATERIAL SAFETY DATA SHEET: ARCTIC THAW

Page: 1

(000000-000000- -0288)

#477105003

DATE OF ISSUE
12/23/1998SUPERSEDES
9/13/1996

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms
N/ATrade Name & Synonyms
ARCTIC THAWChemical Family:
INORGANIC SALT MIXTURE

Formula Mixture --> X

Manufacturer's Name:
MANTEK, DIVISION OF NCH CORP.Address:
BOX 152170
IRVING, TEXAS 75015Prepared By:
R STOLLEY/CHEMISTProduct Code Number
0288Emergency Phone Number
800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
MAGNESIUM CHLORIDE	MUT./IRR	NOT EST. 1	NOT EST. 2	NOT EST.	7791-18-6
CALCIUM CHLORIDE	MOD. TOX.	NOT EST. 1	NOT EST. 2	NOT EST.	10043-52-4
SODIUM CHLORIDE	IRRITANT	NOT EST. 1	NOT EST. 2	NOT EST.	7627-14-5
MAGNESIUM CHLORIDE	MUT./IRR	NOT EST. 1	NOT EST. 2	NOT EST.	7791-18-6
CALCIUM CHLORIDE	MOD. TOX.	NOT EST. 1	NOT EST. 2	NOT EST.	10043-52-4
SODIUM CHLORIDE	IRRITANT	NOT EST. 1	NOT EST. 2	NOT EST.	7627-14-5

SECTION IIa - NON-HAZARDOUS INGREDIENTS

(NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE)

Secret Registry #: 409363-5411P

SECTION III - PHYSICAL DATA

Boiling Point (°F):	224.6	Specific Gravity (H2O=1):	1.26
Vapor Pressure (MM HG):	18	Color:	LT. GREEN
Vapor Density (Air=1):	0.6	Odor:	NONE
PH @ 100% :	N/A	Clarity:	OPAQUE
% Volatile by Volume:	60	Evaporation Rate (BU A/C=1):	0.1
H2O Solubility:	COMPLETE	Viscosity:	NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point NON-FLAM / N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media X ---Foam X ---Alcohol Foam X ---CO2 X ---Dry Chemical X ---Water Spray ---Other			
Special Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR A SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE.			
Unusual Fire and Explosion Hazards: SPILLED MATERIAL MAY BE SLIPPERY. IF EVAPORATED TO DRYNESS, AT TEMPERATURES GREATER THAN 500°F. HYDROGEN CHLORIDE VAPORS CAN BE EVOLVED.			
Aerosol Level (NFPA 308):	N/A		
NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme) 1 ---Health 0 ---Flammability 0 ---Reactivity ---Special			

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
NOT ESTABLISHED FOR MIXTURE.

MATERIAL SAFETY DATA SHEET: ARCTIC THAW

Page: 2

SECTION V - HEALTH HAZARD DATA (Continued)

Effects of Overexposure:

-Acute (Short Term Exposure)

INHALATION MAY CAUSE RESPIRATORY IRRITATION. SKIN CONTACT MAY RESULT IN A SLIGHT IRRITATION SIMILAR TO THAT OF COMMON SALT IF IT IS NOT FLUSHED WITH WATER. EYE CONTACT CAUSES IRRITATION WHICH CAUSES IMMEDIATE INFLAMMATION OF THE EYES SIMILAR TO THAT OF COMMON SALT. UPON INGESTION, THE PRODUCT IS A MILD CATHARTIC CAUSING SYMPTOMS OF DIARRHEA.

-Chronic (Long Term Exposure)

TARGET ORGANS: NONE KNOWN ALTHOUGH THERE IS NO PRIMARY ROUTE OF ENTRY INTO THE BODY, THE PRIMARY ROUTE OF EXPOSURE IS SKIN AND EYE CONTACT. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

Primary Routes of Entry: <--Inhalation <--Ingestion <--Absorption

Emergency and First Aid Procedures:

-Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

-Eye Contact:

IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

-Skin Contact:

WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. REMOVE AND CLEAN CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION IF DISCOMFORT OCCURS.

-Notes to Physician:

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

MAGNESIUM CHLORIDE

MUT: MMC-CMI: 8000 PPM 3. ORL-RAT LD50: 8100 MG/KG 4.
CIT-BMN: HLA 2 MMOL/L 3. ORL-MUS LD50: 7600 MG/KG 4.

TOX: ORL-RAT LD50: 2800 MG/KG 3.

CALCIUM CHLORIDE

ORL-RAT LD50: 1000MG/KG 3. ORL-MUS LD50: 1940 MG/KG 4.
ORL-RBT LD50: 1384MG/KG 3.

SODIUM CHLORIDE

ORL-RAT LD50: 3000MG/KG 3.
SKN-RBT: 500MG/24H MILD 3.
EYE-RBT 100MG/24H MOD. 3.

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable

Conditions to Avoid:

N/A

Incompatibility (Materials to Avoid):

SLIGHTLY CORROSIVE TO METALS.

Hazardous Decomposition Products:

IF EVAPORATED TO DRYNESS AND HEATED TO A MINIMUM OF 500 F, HYDROGEN CHLORIDE VAPORS COULD BE LIBERATED.

Hazardous Polymerization:

<--May Occur X <--Will Not Occur

Conditions to Avoid:

N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

DIKE AND CONTAIN SPILL. ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

Neutralizing Agent:

N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

MATERIAL SAFETY DATA SHEET: ARCTIC THAW

Page: 3

SECTION IX - SPECIAL PROTECTION INFORMATION (Continued)

GENERAL MECHANICAL VENTILATION IS NORMALLY ADEQUATE.

Respiratory Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS OF USE.

Glove Protection:

RUBBER GLOVES IF PROLONGED OR REPEATED SKIN CONTACT IS LIKELY.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

Other Protection:

WEAR GENERAL DUTY WORK CLOTHING AND SHOES.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X

Outdoors-->

Heated-->

Refrigerated-->

Minimum Temperature: -10°F Maximum Temperature: 140 F.

Precautions to be Taken in Handling and Storing:

STORE AWAY FROM GRASSES, TREES, AND OTHER PLANT LIFE. CONCENTRATED PRODUCT MAY DAMAGE OR KILL PLANT LIFE.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ ENTIRE LABEL BEFORE USING. PRACTICE REASONABLE CARE AND CAUTION.

SECTION XI - REGULATORY INFORMATION

Chemical Name

CAS Number

Upper & Limit

N/A

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.
This MSDS is not intended for users in the state of California.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1995-1996.
2. OSHA PEL.
3. SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, EIGHTH EDITION, RICHARD J. LEWIS SR.
4. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, MICROMEDEX, 1995.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

MANTEK, DIVISION OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage, or disposal of the product.

