

# MATERIAL SAFETY DATA SHEET

**Product**      **Halite Ice Melter**

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PRODUCT CODE      H80, H50, H25

DATE PREPARED      April 2012

## DISTRIBUTOR

**T and N, Inc.**

**815 Hwy. T - P.O. Box 240**

**Foristell, MO 63348**

## COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#
Sodium Chloride	7647-14-5
CHEMICAL FAMILY	% BY WEIGHT
Alkali Metal/Halide	90-100
CHEMICAL FORMULA	
NaCl	

## HAZARDS IDENTIFICATION

### POTENTIAL ACUTE HEALTH EFFECTS

FDA GRAS (Generally Recognized as Safe) List: Permitted in food. To the best of our knowledge, the chemical and toxicological properties of the materials in this product have not been thoroughly investigated.

## FIRST AID MEASURES

### EYE CONTACT

Flush with water for 15 minutes. If discomfort persists, seek medical attention.

### SKIN CONTACT

Wash with soap and water. If discomfort develops, seek medical attention.

### INHALATION

Remove from exposure area to ventilated area. If breathing discomfort persists, seek medical attention.

### INGESTION

Ingesting large volumes may cause vomiting. Rinse mouth with water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek medical attention.

## NOTE TO PHYSICIAN

High fluid intake facilitates urinary excretion and relief of edema and temporary elevated blood pressure.

## ACCIDENTAL RELEASE MEASURES

### SPILL

Use broom or dry vacuum to collect material for proper disposal. Rinse area with water.

## FIRE FIGHTING

### PRODUCTS OF COMBUSTION

Non-combustible

### FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES

None to 801°C

### FIRE FIGHTING MEDIA & INSTRUCTIONS

Non-combustible

### SPECIAL REMARKS ON EXPLOSION HAZARDS

Not applicable

## HANDLING & STORAGE

### PRECAUTIONS

Avoid contact with incompatible substance (See Section X).

### STORAGE

Store in a dry area. Keep container tightly closed.



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## EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE LIMITS (OSHA)

No specific limits have been established for sodium chloride ( a soluble substance). The following limits have been generally recognized for particulates (insoluble) not otherwise recognized (PNOR): 5 mg/m<sup>3</sup> respirable dust 8-hour TWA PEL, 15 mg/m<sup>3</sup> total dust 8-hour.

### EXPOSURE LIMITS (ACGIH)

No specific limits have been established for sodium chloride ( a soluble substance). The following limits have been generally recognized for particulates (insoluble) not otherwise recognized (PNOC): 10 mg/m<sup>3</sup> inhalable particulate TWA TLV, 3 mg/m<sup>3</sup> respirable particulate TWA TLV>

### EXPOSURE LIMITS (OTHER)

None

### VENTILATION

May be necessary for nuisance dust levels.

### CLOTHING

Protective clothing may be worn in dusty areas, but is generally not required.

### EYE PROTECTION

Safety glasses

### RESPIRATORY PROTECTION

NIOSH - Approved filtering face piece may be necessary.

## PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL - STATE & APPEARANCE

Crystalline solid

### VOLATILITY

Not applicable

### MOLECULAR WEIGHT OF PURE MATERIAL

58.44

### ODOR

None

### pH and (% SOLUTIONS/WATER)

6.5 - 8.5 (10%)

### VAPOR DENSITY

Not applicable

### BOILING POINT

1413°C

### TASTE

Salty

### MELTING POINT

801°C

### COLOR

White

### SPECIFIC GRAVITY

2.16

### SOLUBILITY (IN WATER)

36 g/100 g H<sub>2</sub>O @ 20°C

### VAPOR PRESSURE

1 mm @ 865°C

### BULK DENSITY

Variable depending upon crystalline size  
(50-85) lb/ft<sup>3</sup>

## STABILITY AND REACTIVITY

### STABILITY

Stable

### INSTABILITY TEMPERATURE

Not Applicable

### CONDITIONS OF INSTABILITY

Not Applicable

### INCOMPATIBILITY WITH VARIOUS SUBSTANCES

Lithium, bromine trifluoride, strong acids and strong oxidizing agents

### CORROSIVITY

Mildly corrosive to metals in the presence of moisture

### SPECIAL REMARKS ON REACTIVITY

May generate chlorine gas when in contact with incompatible substances

### SPECIAL REMARKS ON CORROSIVITY

No further information

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## TOXICOLOGICAL INFORMATION

### ROUTES OF ENTRY

Ingestion, inhalation, skin and eye contact

### TOXICITY TO ANIMALS

Generally considered to be non-toxic.

Oral (LD<sub>50</sub>): 4000 mg/kg (mouse); 3000 mg/kg (rat)

Oral (Ld<sub>LO</sub>): 8000 mg/lg (rabbit)

### CHRONIC EFFECTS ON HUMANS (CARCINOGENIC, REPRODUCTIVE, OTHERS)

Not applicable

### MATERIAL COMPONENT CARCINOGENIC LISTINGS

OSHA	ISRC	NTP
No	No	No

### OTHER TOXIC EFFECTS ON HUMANS

Not applicable

### OTHER DATA

Skin (mild): 50 mg/24 hr (rabbit)

Eye (mild): 100 mg/24 hr (rabbit)

### SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS

Not Applicable

### SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS

Not Applicable

## ECOLOGICAL INFORMATION

### ECOTOXICITY

Dissolution of sufficient quantity in water created an elevated level of salinity that may be harmful to freshwater aquatic species (e.g., acute toxicity LC<sub>50</sub> for Rainbow trout *Salmo gairdneri* - 6.43 mg/L (as chloride)).

### BOD<sub>5</sub> AND COD

Not applicable

### SPECIAL REMARKS

Not applicable

## DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL

Small quantities of sodium chloride may be suitable for landfill disposal. Consult landfill owner/operator and Federal, state, provincial and local regulatory requirements for disposal considerations.

### TSCA INVENTORY STATUS

TSCA #7647-14-5

### SARA LISTING

Not listed under Sections 302, 311/312 or 313

### SARA TITLE III

Not listed

### CERCLA INFORMATION

Not listed

### RCRA INFORMATION

Not listed

## TRANSPORTATION INFORMATION

### DOT CLASSIFICATION

Non Hazardous

### DOT/IMO LABEL

Not applicable

### UN NUMBER

Not applicable

### HAZARD CLASS

Not applicable

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## REGULATORY INFORMATION

### NATIONAL FIRE PROTECTION AGENCY (NFPA) HAZARD RATING

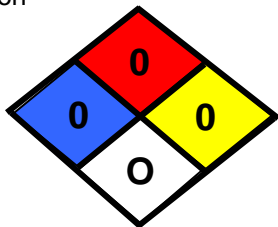
Health Hazard (Blue) Short Term Protection

- 0 = Ordinary Combustible Hazards in a Fire
- 1 = Slightly Hazardous
- 2 = Hazardous
- 3 = Extreme Danger
- 4 = Deadly

Special Hazard (White)

OX = Oxidizer

W = Use No Water, Reacts!



Flammability (Red) Susceptibility to Burn

- 0 = Will Not Burn
- 1 = Will Ignite if Preheated
- 2 = Will Ignite if Moderately Heated
- 3 = Will Ignite at Most Ambient Conditions
- 4 = Burns Readily at Ambient Conditions

Reactivity, Instability (Yellow) Energy

- 0 = Stable and Not Reactive With Water
- 1 = Unstable if Heated
- 2 = Violent Chemical Change
- 3 = Shock and Heat may Detonate

### HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (NPCA - USA)

Health Hazard: 0 Fire Hazard: 0 Reactivity: 0

### OTHER REGULATIONS & CLASSIFICATIONS

DSL #7647-14-5

WHMIS

HCS

Not Applicable

Not Applicable

## SUMMARY

The information in this MSDS was obtained from sources which we believe are accurate and reliable. However, this information is provided without any representation or warranty expressed or implied, regarding the accuracy or correctness, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

815 Highway T • P.O. Box 240 • Foristell, MO 63348-0240

Local (636) 673-2505 • Toll Free (866) 670-2505 • Fax (636) 673-2750

E-Mail: [tandninc@aol.com](mailto:tandninc@aol.com)

[www.tandninc.com](http://www.tandninc.com)