



Material Safety Data Sheet: InstaFreeze®

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1. MATERIAL IDENTIFICATION

Product Name: InstaFreeze®
Chemical Family: Blend of alkaline salts
Sodium Hydroxide
CAS Reg. No.: Proprietary
1310-73-2

2. HAZARDOUS INGREDIENTS

Material or Component	Wt %	Hazard Data
Sodium Hydroxide (CAS 1310-73-2)	<1%	Irritation to skin and eyes

3. PHYSICAL DATA

Material is (at normal conditions): Liquid
Appearance and Odor: Colorless to hazy odorless liquid.
pH: 11.2-12.5
Boiling Point: Greater than 212°F (100°C)
Freezing Point: Approximately 40°F (4°C)
Melting Point: 40°F (4°C); protect from freezing
Vapor Pressure: NA
Vapor Density: NA
Solubility in Water : Water solution complete
Density: 1.3-1.5 g/cc

4. REACTIVITY DATA

Stability (Conditions to Avoid): Product absorbs carbon dioxide from the air. Keep containers closed and sealed.
Incompatibility (Materials to avoid): Water and acid. Product is strong caustic alkali. May react violently with water, acid, and a number of organic compounds. Reacts rapidly with aluminum, tin and zinc. It will also react with bronze and brass.
Hazardous Decomposition Products : None
Hazardous Polymerization: Will not occur.



5. FIRE AND EXPLOSION DATA

Flash Point:	None
Flammable Limits in Air % by Volume:	Upper NA Lower NA
Extinguishing Media:	Non-Combustible
Fire & Explosion Hazards:	In water solution product can react with metals (such as aluminum) generating hydrogen which is flammable and/or explosive if ignited.
Fire-Fighting Equipment:	Wear self contained (positive-pressure if available) breathing apparatus and full protective clothing.

6. HEALTH HAZARD INFORMATION

Inhalation:	Dusts or mists may cause severe irritation to upper respiratory tract.
Ingestion:	May cause gastrointestinal irritation or ulceration and severe burns of the mouth and throat. Single dose oral LD50 has not been determined.
Skin:	Short single exposure may cause some skin b irritation. A single prolonged skin exposure is not likely to result in absorption of harmful amounts. The dermal LD50 has not been determined. This product is not listed as a carcinogen - IARC, NTP, OSHA
Eyes:	May cause severe irritation with corneal injury and result in permanent impairment of vision, even blindness. Dusts may irritate eyes.

7. EMERGENCY AND FIRST AID PROCEDURES

Inhalation:	Remove to fresh air if effects occur. Get immediate medical attention.
Skin:	Immediate continued and thorough washing in flowing water for 30 minutes is imperative while removing contaminated clothing. Get immediate medical assistance. Wash contaminated clothing before reuse. Destroy contaminated shoes.
Eyes:	Immediately flush with water, in less than 10 seconds from contact to avoid serious permanent injury. Moving the victim from water access for transport to medical aid should be done only on the advice from qualified medical personnel. While transporting victim to a medical facility, continue washing if possible.
Ingestion:	Do not induce vomiting. Give large amounts of water or milk. Get immediate medical assistance.
Note to Physician:	This product is not a corrosive by DOT Regulations. May cause some stricture. If lavage is performed, suggest endotracheal and/or esophagoscopy control. Material is strong alkali. If burn is present, treat as any thermal burn, after decontamination. For burns of skin only. Eye irrigation may be necessary for an extended period of time to remove as much of material as possible. No specific antidote. Supportive care. Treatment based on the judgment of the physician in response to reactions of the patient.

8. PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:	Use only in open areas.
Ventilation:	Do not inhale mists or spray.
Eye & Face Protection:	Wear full goggles.
Hands, Arms, & Body:	Rubber gloves and full work clothing. Add protective (rubber) clothing if splashing or contact with solution is likely. Be certain eyewash and fresh water shower is available.

9. PRECAUTIONS & PROCEDURES

Exposure Guidelines:	OSHA PEL and ACGIH TVL not established
Ventilation:	Control airborne concentrations below the exposure guidelines. Good general ventilation sufficient for most operations.
Normal Handling:	Prevent eye and skin contact. Do not breathe dusts or mists.
Storage:	Avoid storing next to strong acids. Material should be stored in clean, dry areas. Do not store in underground tanks. Product absorbs CO ₂ from air. Keep containers closed and sealed.
Skin Protection:	Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, hard hat and face shield or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.
Eye Protection:	Use chemical goggles. Full face shield in addition to goggles is recommended. Maintain eye wash fountain and safety shower at or near work area.
Respiratory Protection:	In misty conditions use an approved mist respirator. If respiratory irritation is experienced use an approved air-purifying respirator.
Special Precautions/ Precautions for Diluting:	Always add solution to water with constant agitation. Never add water to solution. The water should be lukewarm (80-100°F) Never start with hot or cold water. The addition of solution to liquid will cause rise in temperature.

10. ENVIRONMENTAL

Waste Disposal Methods:	Disposal must meet all federal, state, and local regulations.
Action to Take For Spills/Leaks:	Only trained and properly protected personnel should be involved in spill cleanup operations. Small accidental spills of material should be carefully flushed with water. Dilute acid, preferably acetic acid, may be used to neutralize only the final traces of material after flushing.
TSCA Inventory Status:	This product is listed on the TSCA inventory.
DOT Status:	Not regulated as hazardous goods.
SARA (III):	Not listed, no RQ required
RCRA:	Not hazardous as a waste.

HMIS & NFPA Ratings:	HMIS	NFPA
Health	2	2
Flammability	0	0
Reactivity	0	0
Special	NA	NA

NJTSRN KBT-0012 Water CAS 7732-18-5 Sodium Hydroxide CAS 1310-73-2

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer relabels this product, legal counsel should be consulted to insure proper health, safety, and other necessary information is included on the container. Seller provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.