

Custodial



# HILLYARD SPECIAL BLEND

## Material Safety Data Sheet

HILLYARD INDUSTRIES  
St. Joseph, Missouri 64502 USA  
EMERGENCY PHONE 800-553-8011

Effective date: 11/01/2013

Print date: 11/11/2013

NFPA: Health 1, Fire 0, Reactivity 0

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### 1. COMPOSITION AND PRODUCT USE:

<u>CHEMICAL NAME</u>	<u>PERCENTAGE</u>	<u>CAS NUMBER</u>
Sodium Chloride	> 98	007647-14-5
Polymeric Colorant	< 1	N/A
Accelerating Agent	< 1	N/A

**PRODUCT USE:** Ice Melting  
**TECHNOLOGY:** Accelerating agent covered under U.S. Patent – additional patents may be pending.

### 2. HEALTH HAZARD DATA:

#### HEALTH HAZARD SUMMARY:

Non-toxic. No adverse health effects are anticipated with normal use of this product.

**EYE CONTACT:** Low irritant. Exposure may result in mild irritation. Can cause redness and pain.

**INHALATION:** Low irritant – nuisance dust. Over exposure to dust may result in upper respiratory tract irritation.

**SKIN CONTACT:** Low irritant. Prolonged and repeated contact with concentrate may result in slight irritation and dryness of skin to individuals with sensitive skin.

**INGESTION:** Non-toxic in trace amounts. If ingested in large quantities seek medical attention.

See Section 3 for First Aid Measures

### 3. FIRST AID:

**EYE CONTACT:** Flush gently with running water for at least 15 minutes.

**INHALATION:** Remove to fresh air. Get medical attention for any breathing difficulty.

**SKIN CONTACT:** Wash with soap and water. Obtain medical attention if irritation persists.

**INGESTION:** If large amounts were swallowed give water to drink and get medical advice. Never give anything by mouth to an unconscious or convulsive person.

### 4. FIRE AND EXPLOSION HAZARD DATA:

**FIRE HAZARD:** This material does not burn. Not considered to be a fire hazard.

**EXPLOSION:** Not considered to be an explosion hazard.

**PRODUCTS OF COMBUSTION:** Decomposes when heated to temperatures above 801 degrees C. May release toxic fumes of chlorine and sodium oxides.

**EXTINGUISHING MEDIA:** Use extinguishing agents appropriate for surrounding fire.



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### 5. ACCIDENTAL RELEASE MEASURES:

<b>SMALL SPILLS:</b>	Incorrect application of this product from its intended uses is not expected to be harmful to the environment.
<b>LARGE SPILLS:</b>	Avoid contamination of drinking water, natural waterways, or ground water supply. Incorrect application of this product from its intended uses is not expected to be harmful to the environment.
<b>CLEAN UP:</b>	Small and large spills: Contain spilled material if possible. Collect in suitable and properly labeled containers. Flush residue with plenty of water. See Section 13, Disposal Considerations, for additional information.
<b>ECOTOXICITY DATA:</b>	Maybe harmful to fresh water aquatic species and to plants that are not saline tolerant.
<b>DISPOSAL METHOD:</b>	Waste must be disposed of in accordance with federal, state/provincial and local environmental control regulations. Flush residue with plenty of water.

### 6. SAFE HANDLING AND STORAGE PRECAUTIONS:

<b>STORAGE:</b>	Store in cool, dry well-ventilated area, removed from acids. Ensure packaging is adequately labeled and protected from physical damage.  Incompatible with sulphuric and nitric acids, caustics, but no other critical requirements.  Will corrode uncoated metal in storage location.
<b>HANDLING PROCEDURES:</b>	Avoid contact with skin and eyes, wash hands with soap and water after handling if required.

### 7. EXPOSURE CONTROLS/PERSONAL PROTECTION (Calcium Chloride):

<b>VENTILATION CONTROLS:</b>	In general, dilution ventilation is a satisfactory health hazard control however if conditions create discomfort to the worker then a local exhaust system should be considered.
<b>PERSONAL PROTECTION:</b>	Dust goggles, long sleeves and trousers, gloves.
<b>SKIN PROTECTION:</b>	Wear protective gloves and a clean body covering clothing.
<b>EYE PROTECTION:</b>	Use dust goggles. Maintain all eyewash stations and quick drench facilities in work area.
<b>RESPIRATORY:</b>	NIOSH approved filtering face piece may be necessary



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### 8. PHYSICAL DATA:

<b>COLOR (PHYSICAL STATE &amp; APPEARANCE):</b>	Blue colored crystalline solid
<b>ODOR:</b>	Odorless
<b>pH (5% SOLV/WATER):</b>	6 to 8 (Neutral)
<b>BOILING/CONDENSATION POINT:</b>	1413°C (2575.4°F)
<b>MELTING/FREEZING POINT:</b>	800.9°C (1473.6°F)
<b>SPECIFIC GRAVITY (water=1):</b>	2.165 (WATER = 1)
<b>VAPOR PRESSURE:</b>	0.1 kpa (1mm hg) (at 865°C)
<b>VAPOR DENSITY (air=1):</b>	Not applicable
<b>VOLATILITY:</b>	0% (v/v) 0% (w/w)
<b>ODOR THRESHOLD:</b>	Not applicable
<b>EVAPORATION RATE:</b>	Not applicable
<b>VOC:</b>	0 (%)
<b>DECOMPOSITION TEMPERATURE:</b>	Not applicable
<b>WATER SOLUBILITY:</b>	Readily soluble
<b>FLASH POINT:</b>	NA
<b>LOWER FLAMMABILITY LEVEL (air):</b>	NA
<b>UPPER FLAMMABILITY LEVEL (air):</b>	NA
<b>AUTOIGNITION TEMPERATURE:</b>	NA

### 9. STABILITY & REACTIVITY DATA:

<b>REACTIVITY / STABILITY:</b>	Stable.
<b>CONDITIONS TO AVOID:</b>	None known.
<b>INCOMPATIBILITIES / MATERIALS TO AVOID:</b>	Reactive with oxidizing agents, acids, lithium, and bromine trifluoride.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	When heated to above 801 °C it emits toxic fumes of chlorine and sodium oxide.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur.

### 10. TOXICOLOGICAL PROPERTIES

<b>ROUTES OF ENTRY:</b>	Inhalation, Ingestion
<b>ACUTE:</b>	Ingestion in large amounts (greater than 0.5 kg) can cause gastrointestinal upset and irritation of the stomach with nausea and vomiting. May affect behavior, sense organs, metabolism and cardiovascular system.  Continued exposure may produce dehydration, internal organ congestion.  The material can be irritating to the mucous membranes and upper respiratory tract.



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**CHRONIC:**

In severe cases Sodium Chloride can cause damage to kidneys, raise blood pressure, heartburn, osteoporosis, gastric cancers, and ventricular hypertrophy.

**11. ECOLOGICAL INFORMATION**

The product itself and its products of degradation are not toxic.

**ENVIRONMENT:**

This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities. Not expected to bioaccumulate.

Solution is highly saline and large spills could potentially cause flora mortality.

**12. ENVIRONMENTAL AND DISPOSAL INFORMATION: (See Section 14 for Regulatory Information)**

Reuse or recycle if possible. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Report spills if applicable. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Landfill and waste water treatment system.

**13. TRANSPORT INFORMATION:**

**UNITED STATES DOT INFORMATION:**

This product is not regulated by D.O.T. when shipped domestically by land.

**CANADIAN TDG INFORMATION:**

This product is not regulated by T.D.G. when shipped domestically by land.

**14. REGULATORY & SHIPPING DATA: (Not meant to be all-inclusive- selected regulations represented)**

D.O.T. PROPER SHIPPING NAME:	N/A
HAZARDOUS SUBSTANCE 49CFR CERCLA:	N/A
D.O.T. HAZARD CLASS	N/A
D.O.T. LABELS REQUIRED	N/A
D.O.T. PLACARDS REQUIRED	N/A

**15. OTHER INFORMATION:**

**ADDITIONAL HEALTH DATA COMMENT:**

This Material Safety Data Sheet contains environmental, health and toxicological information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-to-know / emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS. Discard any previous edition of this MSDS.

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Latest version of this MSDS can be requested from Hillyard Industries

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