

# Material Safety Data Sheet

Sodium Chloride



## Section 1. Product and Company Identification

<b>Product name</b>	: Sodium Chloride
<b>Product code</b>	: SX0425
<b>Synonym</b>	: Salt; Halite
<b>Material uses</b>	: Other non-specified industry: Analytical reagent.
<b>Manufacturer</b>	: EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 856-423-6300 Technical Service Monday - Friday: 8:00 - 5:00 PM
<b>Validation date</b>	: 4/13/2006.
<b>Print date</b>	:
<b>In case of emergency</b>	: 800-424-9300 CHEMTREC (USA) 613-996-6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week

## Section 2. Hazards Identification

<b>Physical state</b>	: Solid. (Granular solid. Crystals.)
<b>Odor</b>	: Odorless.
<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Emergency overview</b>	: WARNING! CAUSES DAMAGE TO THE FOLLOWING ORGANS: SKIN, STOMACH. MAY CAUSE EYE AND SKIN IRRITATION. Avoid contact with skin and clothing. Wash thoroughly after handling.
<b>Routes of entry</b>	: Inhalation. Ingestion.
<b>Potential acute health effects</b>	
<b>Eyes</b>	: Moderately irritating to eyes.
<b>Skin</b>	: Moderately irritating to the skin.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: Practically non-toxic if swallowed.
<b>Carcinogenic effects</b>	: No known significant effects or critical hazards.
<b>Mutagenic effects</b>	: No known significant effects or critical hazards.
<b>Teratogenicity / Reproductive toxicity</b>	: No known significant effects or critical hazards.
<b>Medical conditions aggravated by over-exposure</b>	: Repeated skin exposure can produce local skin destruction or dermatitis. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

## Section 3. Composition/Information on Ingredients

United States Name	CAS number	% by Weight
Sodium Chloride	7647-14-5	100

## Section 4. First Aid Measures

<b>Eye contact</b>	: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
<b>Skin contact</b>	: Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Inhalation</b>	: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Ingestion</b>	: Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give

small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

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## Section 5. Fire Fighting Measures

**Flammability of the product** : No specific hazard.  
**Extinguishing media**  
**Suitable** : Use an extinguishing agent suitable for the surrounding fire.  
**Not suitable** : None known.  
**Special exposure hazards** : Not available.  
**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## Section 6. Accidental Release Measures

**Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.  
**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.  
**Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

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## Section 7. Handling and Storage

**Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.  
**Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

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## Section 8. Exposure Controls/Personal Protection

Consult local authorities for acceptable exposure limits.

**Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protection**

**Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.  
Recommended: safety glasses with side-shields

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Body: Recommended: lab coat

**Respiratory** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.  
Recommended: nitrile rubber

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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## Section 9. Physical and Chemical Properties

**Physical state** : Solid. (Granular solid. Crystals.)  
**Color** : White.  
**Odor** : Odorless.  
**Molecular weight** : 58.44 g/mole  
**Molecular formula** : Cl-Na  
**Boiling/condensation point** : 1430.85°C (2607.5°F)  
**Melting/freezing point** : 800.85°C (1473.5°F)

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## Section 10. Stability and Reactivity

- Stability and reactivity** : The product is stable.  
**Hazardous decomposition products** : These products are halogenated compounds, hydrogen chloride.  
**Hazardous polymerization** : Will not occur.
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## Section 11. Toxicological Information

### Toxicity data

#### United States

Product/ingredient name	Test	Result	Route	Species
Sodium Chloride	LD50	3000 mg/kg	Oral	Rat
	LC50	>42000 mg/m <sup>3</sup> (1 hour/hours)	Inhalation	Rat

- Chronic effects on humans** : Causes damage to the following organs: skin, stomach.  
**Other toxic effects on humans** : Hazardous in case of skin contact (irritant), of eye contact (irritant).  
**Specific effects**  
**Carcinogenic effects** : No known significant effects or critical hazards.  
**Mutagenic effects** : No known significant effects or critical hazards.  
**Teratogenicity / Reproductive toxicity** : No known significant effects or critical hazards.  
**Sensitization**  
**Ingestion** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Eyes** : Moderately irritating to eyes.  
**Skin** : Moderately irritating to the skin.
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## Section 12. Ecological Information

### Ecotoxicity data

#### United States

Product/ingredient name	Species	Period	Result
Sodium Chloride	Daphnia magna (EC50)	48 hour/hours	402.6 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	6094 mg/l
	Pimephales promelas (LC50)	96 hour/hours	6390 mg/l
	Pimephales promelas (LC50)	96 hour/hours	7050 mg/l
	Pimephales promelas (LC50)	96 hour/hours	7100 mg/l
	Pimephales promelas (LC50)	96 hour/hours	7200 mg/l

- Environmental precautions** : No known significant effects or critical hazards.  
**Products of degradation** : These products are halogenated compounds. Some metallic oxides.  
**Toxicity of the products of biodegradation** : The product itself and its products of degradation are not toxic.
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## Section 13. Disposal Considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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## Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
DOT Classification	-	CHEMICALS, N.O.S.	-	-	-	Not available.

PG\* : Packing group

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## Section 15. Regulatory Information

### United States

- HCS Classification** : Irritating material  
Target organ effects
- U.S. Federal regulations** : TSCA 8(b) inventory: Listed  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: Sodium Chloride  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Chloride :  
Immediate (acute) health hazard, Delayed (chronic) health hazard  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

### State regulations

- : No products were found.

### Canada

- WHMIS (Canada)** : Not controlled under WHMIS (Canada).  
**CEPA DSL/CEPA NDSL** : CEPA DSL: Sodium Chloride

**This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.**

### EU regulations

- Risk phrases** : This product is not classified according to EU legislation.

### International regulations

- International lists** : Australia (NICNAS): Sodium Chloride  
  
China: Sodium Chloride  
  
Germany water class: Sodium Chloride  
  
Japan (METI): Sodium Chloride  
  
Korea (TCCL): Sodium Chloride  
  
Philippines (RA6969): Sodium Chloride

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## Section 16. Other Information

- Label requirements** : WARNING!  
CAUSES DAMAGE TO THE FOLLOWING ORGANS: SKIN, STOMACH.  
MAY CAUSE EYE AND SKIN IRRITATION.

**National Fire Protection Association (U.S.A.)** :  

	0	<b>Flammability</b>
<b>Health</b>	0	0
		<b>Instability</b>
		<b>Special</b>

### Notice to reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

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