Material Safety Data Sheet

Sodium chloride

Section 1. Product and Company Identification

Common Name: Sodium chloride
Supplier: Compass Minerals Group
8300 College Boulevard
Overland Park, KS 66210, USA

Synonyms: Sodium chloride, Salt, Sea salt, Saline, Halite, Rock salt, Ice/snow melt.
Trade name: Sodium chloride
Material Uses: Deicing, general industrial and water softening/conditioning purposes.
Manufacturer: Silco Canada, Inc.
5430 Timberlea Boulevard
Mississauga, Ontario L4W 2T7, Canada
North American Salt Company
5300 College Boulevard
Overland Park, KS 66210, USA

Code: Not available.
MSDS#: Not available.
Preparation Date: 4/15/2002.
Print Date: 4/15/2002.

In Case of Emergency:
Canada: CANUTEC-1-813-996-2686
US: CHEMTREC-1-800-424-9300

Section 2. Composition, Information on ingredients

Name | CAS # | % by Weight | Exposure Limits
--- | --- | --- | ---
1) Sodium chloride | 7647-14-5 | 90-100 | TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.
TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PONC): 10mg/cu.m. Inhaleable Particulate TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Section 3. Hazards Identification

Emergency Overview: White crystalline solid.
MAY CAUSE EYE IRRITATION.

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects:
- Eyes: Slightly hazardous in case of eye contact (irritant).
- Skin: Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
- Inhalation: Slightly hazardous in case of inhalation (lung irritant).
- Ingestion: Slightly hazardous in case of ingestion.

Potential Chronic Health Effects:
- CARCINOGENIC EFFECTS: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
- MUTAGENIC EFFECTS: Not available.
- TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure:
Repeated or prolonged exposure is not known to aggravate medical conditions.

Potential Environmental Effects:
May be harmful to freshwater aquatic species and to plants that are not salt tolerant.

See Toxicological Information (section 11)
### Section 4. First Aid Measures

**Eye Contact**
- Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Obtain medical attention if irritation persists.

**Skin Contact**
- Wash with soap and water. Obtain medical attention if irritation persists. Cold water may be used.

**Inhalation**
- If inhaled, move to fresh air. If not breathing, give artificial respiration. Obtain medical attention if irritation persists.

**Ingestion**
- Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Notes to Physician**
- Not available.

### Section 5. Fire Fighting Measures

- **Flammability of the Product**
  - Non-flammable.

- **Autoignition Temperature**
  - Not applicable.

- **Flash Point**
  - Not applicable.

- **Flammable Limits**
  - Not applicable.

- **Products of Combustion**
  - Decomposes when heated to temperatures above 901 degrees C, may release toxic fumes of chlorine and sodium oxides.

- **Fire Hazards in Presence of Various Substances**
  - Not applicable.

- **Explosion Hazards in Presence of Various Substances**
  - Risks of explosion of the product in presence of mechanical impact: Not available.

- **Fire Fighting Media and Instructions**
  - Risks of explosion of the product in presence of static discharge: Not available.
  - Use extinguishing media suitable for surrounding materials.

- **Protective Clothing (Fire)**
  - Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

- **Special Remarks on Fire Hazards**
  - Not available.

- **Special Remarks on Explosion Hazards**
  - Not available.

### Section 6. Accidental Release Measures

- **Small Spill and Leak**
  - Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

- **Large Spill and Leak**
  - Contact emergency services and supplier for advice. Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evaporate through the sanitary system.

### Section 7. Handling and Storage

- **Handling**
  - Avoid breathing dust. Avoid contact with incompatibles.

- **Storage**
  - Keep container tightly closed. Keep container in a cool, well-ventilated area.

### Section 8. Exposure Controls, Personal Protection

- **Engineering Controls**
  - Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

- **Personal Protection**
  - **Eyes**
    - Safety glasses.
  - **Body**
    - Protective clothing may be worn in dusty area, but is generally not required.
  - **Respiratory**
    - NIOSH approved filtering facepiece may be necessary.

### Section 9. Physical and Chemical Properties

- **Physical State and Appearance**
  - White crystalline solid.

- **Color**
  - White.

- **Odor**
  - Odorless.

- **Molecular Weight**
  - 58.44 g/mole

- **Molecular Formula**
  - NaCl

- **pH (1% Soln/Water)**
  - 6 to 8 [Neutral.]

- **Boiling/Condensation Point**
  - 1413°C (2575.4°F)

- **Melting/Freezing Point**
  - 800.9°C (1473.8°F)
Dichloroethylene

**Section 10. Stability and Reactivity**

**Stability and Reactivity**
- The product is stable.

**Incompatibility with Various Stresses**
- Reactive with oxidizing agents, acids, lithium, bromine trifluoride.

**Hazardous Decomposition Products**
- These products are chlorine, oxides of nitrogen.

**Hazardous Polymerization**
- Will not occur.

**Section 11. Toxicological Information**

**Toxicity to Animals**
- Acute oral toxicity (LD$_{50}$): 3000 mg/kg [Rat].
- Acute toxicity of the dust (LC$_{50}$): >2100 mg/m$^3$ 4 hour(s) [Rat].

**Carcinogenic Effects on Humans**
- CARCINOGENIC EFFECTS: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
- May cause damage to the following organs: upper respiratory tract, skin, eyes, stomach.

**Toxic Effects on Humans**
- Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).

**Special Remarks on Toxicity to Animals**
- Not available.

**Special Remarks on Chronic Effects on Humans**
- Not available.

**Special Remarks on Other Toxic Effects on Humans**
- Not available.

**Section 12. Ecological Information**

**Toxicity**
- Maybe harmful to freshwater aquatic species and to plants that are not saline tolerant.

**Biodegradable/COD**
- Not applicable.

**Bioavailability**
- Not available.

**Products of Degradation**
- Not applicable.

**Toxicity of the Products of Degradation**
- Not applicable.

**Special Remarks**
- Not applicable.

**Section 13. Disposal Considerations**

**Waste Information**
- Waste must be disposed of in accordance with federal, state/provincial and local environmental control regulations.

**Waste Stream**
- Not available.

**Consult your local authorities.**

**Section 14. Transport Information**

(continued on next page)
Section 15. Regulatory Information

HCS Classification: Not controlled under the HCS (United States).

TSCA 8(b) inventory: Sodium chloride 7647-14-5
Not listed under SARA 302, 304, or 313.
SARA 302/304/311/312 hazardous chemicals: Sodium chloride
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium chloride: Immediate (Acute)
Health Hazard

Not listed under GWA.
Not listed under GAA.
Not listed under CERCLA.

U.S. Federal Regulations:

Not listed under SARA 302, 304, or 313.
SARA 302/304/311/312 hazardous chemicals: Sodium chloride
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium chloride: Immediate (Acute)
Health Hazard

Not listed under GWA.
Not listed under GAA.
Not listed under CERCLA.

State Regulations:

No products were found under New Jersey, New York and Pennsylvania RTK.
California Prop. 65: No products were found.

Canadian Regulations:

Not controlled under WHMIS (Canada).
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)

References: Not available.

Other Special Considerations: Not available.

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Prepared by: Dell Tech Laboratories Ltd. (S19) 858-8021

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