Product name: Sodium Chloride

1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Supplier's details</th>
<th>Sodium Chloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company name of supplier</td>
<td>PRO CHEMICAL &amp; DYE</td>
</tr>
<tr>
<td>Address</td>
<td>126 SHOVE STREET</td>
</tr>
<tr>
<td></td>
<td>Fall River, MA 02724</td>
</tr>
<tr>
<td>Customer Information</td>
<td>1-800-228-9393</td>
</tr>
<tr>
<td>Number</td>
<td></td>
</tr>
<tr>
<td>Emergency telephone number</td>
<td>800-255-3924  ChemTel. (United States)</td>
</tr>
<tr>
<td></td>
<td>+ 1 01 813-248-0585 (Outside the United States)</td>
</tr>
</tbody>
</table>

2. HAZARDS IDENTIFICATION

GHS Classification
Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements
This product is not hazardous per the Globally Harmonized System of Classification and Labelling (GHS).

Other hazards
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance.

**Components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>=&gt; 99.0 - &lt;= 100.0 %</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

If inhaled

Move person to fresh air; if effects occur, consult a physician.

In case of skin contact

Wash off with plenty of water.

If swallowed

If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Protection of first-aiders

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

No specific antidote.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

Specific hazards during firefighting

None known.

Hazardous combustion products

Fire conditions may cause this product to decompose. Refer to section 10 - Thermal Decomposition.

Further information

Keep people away. Isolate fire and deny unnecessary entry. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

This material does not burn. Fight fire for other material that is burning.

Special protective equipment

Wear positive-pressure self-contained breathing apparatus
for firefighters (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to section 7, Handling, for additional precautionary measures.

Environmental precautions
Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up
Contain spilled material if possible. Collect in suitable and properly labeled containers. Use care to minimize generation of airborne dust. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Advice on safe handling
Avoid generating and breathing dust. Avoid contact with eyes. Wash thoroughly after handling. Use with adequate ventilation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage
Avoid temperatures above 40°C (104°F) Keep container tightly closed in a dry and well-ventilated place. Avoid moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Engineering measures
Local exhaust ventilation may be necessary for some operations. Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.
Personal protective equipment

Respiratory protection

In dusty or misty atmospheres, use an approved particulate respirator.
Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process.
The following should be effective types of air-purifying respirators:
Particulate filter.

Hand protection

Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Examples of preferred glove barrier materials include: Neoprene. Polyvinyl chloride ("PVC" or "vinyl"). Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Wear clean, body-covering clothing.

Skin and body protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Crystals

Color
Colorless to white

Odor
Odorless

Odor Threshold

pH
7
Method: Estimated.
1% aqueous solution.

Melting point/range
801°C (1,474 °F)
Method: Supplier

Freezing point
-20.5 °C (-4.9 °F)
Method: Supplier
for 23% aqueous solution
1,413 °C (2,575 °F)
Method: Supplier

Boiling point/boiling range

4/12
Flash point
Evaporation rate
Flammability (solid, gas)
Upper explosion limit
Lower explosion limit
Vapor Pressure
Relative Vapor Density (air = 1)
Relative density
Water solubility
Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidizing properties
Molecular weight

Test Type: closed cup
No test data available
Not applicable to solids
No data available.
No test data available
No test data available
1.00 mmHg
(865°C)
Method: Supplier
No test data available
2.165 (25°C)
Method: Supplier (water = 1)
360 (20°C)
Method: Supplier
Partitioning from water to n-octanol is not applicable. No bioconcentration is expected because of the relatively high water solubility.
No test data available
No test data available
Solid.
No data available.
No data available.
58.44 g/mol
Method: Supplier

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY
Reactivity
Chemical stability
Possibility of hazardous
No dangerous reaction known under conditions of normal use.
Thermally stable at typical use temperatures.
Polymerization will not occur.
Reactions

Conditions to avoid
Avoid moisture.

Incompatible materials
Corrosive to some metals.
Avoid contact with:
Oxidizers.
Bromine trifluoride.
Acids.

Hazardous decomposition products
Does not normally decompose.
Decomposition products can include and are not limited to:
Hydrogen chloride.
Sodium oxides.

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Acute toxicity

Product:
Acute oral toxicity
Remarks: Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Low toxicity if swallowed. Excessive exposure may cause: Nausea and/or vomiting.
L050 (Rat): > 3,550 mg/kg

Acute inhalation toxicity
Remarks: Dust may cause irritation to upper respiratory tract (nose and throat).
LC50 (Rat): > 42 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist

Acute dermal toxicity
Remarks: Prolonged skin contact is unlikely to result in absorption of harmful amounts.
LD50
(Rabbit): 10,000 mg/kg

Skin corrosion/irritation

Product:
Result: No skin irritation
Remarks: Prolonged contact may cause slight skin irritation with local redness. May cause more severe response if skin is abraded (scratched or cut). Brief contact is essentially nonirritating to skin.

Serious eye damage/eye irritation

Product:
Result: No eye irritation
Remarks: May cause eye irritation.
May cause slight temporary corneal injury.
Dust may irritate eyes.

Respiratory or skin sensitization

Product:
Remarks: For skin sensitization:
No relevant data found.
Remarks: For respiratory sensitization:
No signs of respiratory sensitization have been reported.

Carcinogenicity

Product:
No relevant data found.

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Teratogenicity

Product
No relevant data found.

Mutagenicity

Product
In vitro genetic toxicity studies were predominantly negative.

Reproductive toxicity

Product:
No relevant data found.

STOT - single exposure

Product:
Assessment: Evaluation of available data suggests that this material is not an STOT -SE toxicant.

Repeated dose toxicity

Product:

7/12
Remarks: Medical experience with sodium chloride has shown a strong association between elevated blood pressure and prolonged dietary overuse. Related effects could occur in the kidneys.

**Aspiration toxicity**

**Product:**
- Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

**Product:**
- Toxicity to fish

Remarks: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

- **LC50 (Lepomis macrochirus (Bluegill sunfish)):** 5,840 mg/L
  - Exposure time: 96.0 h
  - Test Type: flow-through test
  - Method: OECD Test Guideline 203 or Equivalent

- **LC50 (Pimephales promelas (fathead minnow)):** 10,610 mg/L
  - Exposure time: 96.0 h
  - Test Type: static test
  - Method: OECD Test Guideline 203 or Equivalent

- **EC50 (Daphnia magna (Water flea)):** 1,900.00 mg/L
  - Exposure time: 48.0 h
  - Test Type: static test

- **EC50 (Other):** 2,430 mg/L

- **Toxicity to algae**

  End point: Growth inhibition (cell density reduction)
  - Exposure time: 120 h
  - Test Type: static test
  - Method: OECD Test Guideline 201 or Equivalent

- **IC50 (activated sludge):** > 1,000 mg/L
  - Method: OECD 209 Test

**Product:**
- Toxicity to daphnia and other aquatic invertebrates

**Product:**
- Toxicity to bacteria

**Product:**
- Biodegradability

Remarks: Biodegradation is not applicable.

**Product:**
- Bioaccumulative potential

Remarks: Partitioning from water to n-octanol is not applicable.

No bioconcentration is expected because of the relatively high
Mobility in soil

**Product:**
Distribution among environmental compartments

**Remarks:** Potential for mobility in soil is very high (Koc between 0 and 50).

Other adverse effects

**Product:**
Ozone-Depletion Potential

**Regulation:** 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

**Remarks:** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

13. DISPOSAL CONSIDERATIONS

**Disposal methods**
Waste from residues

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. 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 OR MANUFACTURING PROCESSES 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: Incinerator or other thermal destruction device. Landfill.

14. TRANSPORT INFORMATION

**International Regulation**

**IATA-DGR**
Not regulated as a dangerous good

**IMDG-Code**
Not regulated as a dangerous good

**Transport in bulk according to Annex** of MARPOL 73/78 and the IBC Code
Product name: Sodium Chloride

Not applicable for product as supplied.

National Regulations

49 CFR (DOT) - NON BULK
Not regulated as a dangerous good

49 CFR (DOT) - BULK
Not regulated as a dangerous good

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazards
This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
No OSHA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RO.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RO.

SARA 311/312 Hazards
This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

SARA 302
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A. App.A + 8).
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 66).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68). Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).
Product name: Sodium Chloride

US State Regulations
Massachusetts Right To Know
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know
The following chemicals are listed because of the additional requirements of Pennsylvania law:

<table>
<thead>
<tr>
<th>Cas No.</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-14-5</td>
<td>Sodium chloride</td>
</tr>
</tbody>
</table>

New Jersey Right To Know
The following chemicals are listed because of the additional requirements of New Jersey law:

<table>
<thead>
<tr>
<th>Cas No.</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-14-5</td>
<td>Sodium chloride</td>
</tr>
</tbody>
</table>

California Prop. 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:
United States TSCA Inventory
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

16. OTHER INFORMATION

Further information

NFPA:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS III:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Issue Date: 11/02/2017
Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x response; ELx - Loading rate associated with x response; EmS - Emergency Schedule; ErCx - Concentration associated with x growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 of a test population; LD50 - Lethal Dose to 50 of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECl - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods