

SODIUM CHLORIDE**PRODUCT IDENTIFICATION****Chemical Name and Synonyms:**

Sodium chloride; Table salt; Halite; Sea salt

Chemical Family:

Halides; Inorganic salt

Chemical Formula:

NaCl

Product Use:

Laboratory reagent

Manufacturer's Name and Address:

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HAZARDOUS INGREDIENTS OF MATERIALS

Ingredients	%	TLV Units	CAS No.
Sodium chloride	>99	Not established	7647-14-5

PHYSICAL DATA**Physical State:**

Solid

Odour and Appearance:

White or off-white crystals or powder; odourless

Odour Threshold (ppm):

Not applicable

Vapour Pressure (mm Hg):

1 mm @ 865°C

Vapour Density (Air = 1):

Not applicable

Evaporation Rate:

Not applicable

Boiling Point (degrees C):

1413°C

Melting Point (degrees C):

801°C

pH:

6.7 to 7.3

Specific Gravity:

2.2 @ 20°C

Coefficient of Water/Oil distribution:

LogP (oct)=-3.0

SHIPPING DESCRIPTION**UN:**

Not regulated

T.D.G. Class:

Not regulated

Pkg. Group:

Not regulated

REACTIVITY DATA**Chemical Stability:**

Stable; hygroscopic, absorbs moisture from the air.

Incompatibility with other substances:

Corrosive to steel and iron.

Reactivity:

Avoid excessive heat, generation of dust, all incompatible materials.

Hazardous Decomposition Products:

Emits irritating vapour at high temperatures.

FIRE AND EXPLOSION DATA**Flammability:**

Not combustible. Will not burn

Extinguishing Media:

Use an extinguisher appropriate to the surrounding material that is burning.

Flash Point (Method Used):

Not applicable

Autoignition Temperature:

Not applicable

Upper Flammable Limit (% by volume):

Not applicable

Lower Flammable Limit (% by volume):

Not applicable

Hazardous Combustion Products:

Irritating vapours

Sensitivity to Impact:

None

Sensitivity to Static discharge:

None

TOXICOLOGICAL PROPERTIES AND HEALTH DATA**Toxicological Data:****LD₅₀:**

(oral, rat) 3 g/kg; (oral, mouse) 4 g/kg; (dermal, rabbit) >10 g/kg

LC₅₀:

(rat) >42 gm/m³/1h

Effects of Acute Exposure to Product:**Inhaled:**

May irritate. Inhalation of large amounts may be harmful.

In contact with skin:

Mild irritation

In contact with eyes:

Mild irritation

Ingested:

Massive overdosage may cause diarrhea, nausea and vomiting, hypernoea and convulsions.

Other Health Effects:

Sodium chloride presents no serious health effects in normal industrial usage. However, sodium chloride is linked to heart and blood pressure problems through dietary intake. Persons afflicted with blood pressure or heart problems may be sensitized to workplace exposures. Improper use of salt tablets may cause irritation of the stomach.

Effects of Chronic Exposure to Product:**Carcinogenicity:**

Not considered carcinogenic

Teratogenicity:

No known effects

Reproductive Effects:

No known effects

Mutagenicity:

No known effects

Synergistic Products:

None known

PREVENTIVE MEASURES**Engineering Controls:**

Not required with normal use

Respiratory Protection:

SODIUM CHLORIDE

Dust mask. NIOSH approved dust respirator where concentrations are very high.

Eye Protection:

Safety glasses.

Skin Protection:

Natural or nitrile rubber, or neoprene gloves for solutions.

Other Personal Protective Equipment:

Eye bath and safety shower in work area.

Leak and Spill Procedure:

Flush to sewer with plenty of water.

Waste Disposal:

Follow all federal, provincial and local regulations.

Handling Procedures and Equipment:

Use routine safe handling procedures. Workers handling this substance should be aware of its hazards and its safe use, and should wear appropriate protective equipment and clothing for the conditions. Avoid raising dust. Avoid inhalation of dust or mist. Wash thoroughly after using.

Storage Requirements:

Store in a cool, dry, well-ventilated area, in suitable, labelled containers.

FIRST AID MEASURES

Specific Measures:

Eyes:

Flush thoroughly with gently running water for five to ten (5-10) minutes, or until no trace of chemical remains, holding eyelids open while flushing. Do not allow victim to rub eyes. Take care not to flush contaminated water into unaffected eye. Get medical advice if irritation develops.

Skin:

Remove contaminated clothing. Wash skin with soap and plenty of running water until no trace of chemical remains. If irritation develops get medical attention.

Inhalation:

Remove to fresh air. Give oxygen and get medical attention for any breathing difficulty.

Ingestion:

If the victim is alert and not convulsing, rinse mouth thoroughly with water and give 2 to 4 glasses of water to drink to dilute. If victim feels unwell, or if a large amount has been ingested, get medical attention.

REFERENCES USED

CCINFO disc: Cheminfo

Budavari: The Merck Index, 12th ed., 1997

Suppliers' Material Safety Data Sheets

ADDITIONAL INFORMATION

Date Issued:

May 16, 1989

Revision:

April 2012

MSDS:

7560-1, 7561-1, 7565-1

WHMIS Designation:

Not a controlled product. Not required to be updated every three years (WHMIS 1992, B-40, Section 29.2)

Prepared by: Caledon Laboratories Ltd. (905)

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