

SODIUM CHLORIDE
SAFETY DATA SHEET

Edition January 2004

1. Product and Company Identification.

1.1. Product Identification:

Chemical family	Inorganic Salt
IUPAC denomination:	Sodium Chloride
CAS n.	7647-14-5
EINECS n.	231-598-3
Formula	NaCl
Molecular weight	58,45
Trade Name:	Salt, common salt, rocksalt, halite, sea, solar , table salt.

1.2. Company Identification

ITALKALI - Societa Italiana Sali Alcalini S.p.A.
Via Principe Granatelli, n.46
90139 PALERMO - ITALY
phone number 00390916029111
fax number 00390916029195-200
Email: info@italkali.com

1.3. Emergency numbers. 00390916029196 – 00390916029197

2. Composition, Information on ingredients.

Sodium Chloride > 98%. – No known occupational exposure limits established.
The product does not contain dangerous substances for which occupational exposure limits are established.

3. Hazard Identification.

Normally the Sodium Chloride is not considered as an hazardous substance.
No acute systemic, chronic systemic or chronical local toxicity is registered.
May cause eye and skin irritation. Ingestion of large amounts may cause gastrointestinal irritation. May cause also respiratory tract irritation.

4. First Aid Measures.

Normally it is not necessary to call a physician.
Eyes: Flush with plenty water for at least 15 minutes.
Skin: Wash with soap and water.
Inhalation: Not a normal route to entry. Remove to fresh air.

5. Fire Fighting measures.

Fire: Not considered to be a fire hazard.
Explosion: Not considered to be an explosion hazard.
Fire extinguishing media: Use any media suitable for extinguishing surroundig fire.
General information: Wear appropriate protective clothing to prevent contact with skin and eyes. Wear an approved self contained breathing apparatus to prevent contact with thermal decomposition products.

6. Accidental Release Measures.

General information: Use proper personal protective equipment as indicated in section 8.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.
Avoid generating dust conditions. Rinse area with water.

7. Handling and Storage.

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Do not ingest or inhale.

Storage: Keep in a tightly closed container stored in a cool, dry and ventilated area.

8. Exposure Controls/ Personal Protection.

Exposure limits: ACGIH, NIOSH, OSHA **none listed.**

Personal Protective Equipment: Approved dust mask not needed but it may be use for comfort.

Eyes: Wear safety glasses with side shield.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

9. Physical and Chemical Properties.

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|----------------------------|--------------------|
| 9.1. Appearance : | white crystals. |
| 9.2. Odor: | odorless. |
| 9.3. pH aqueous solutions: | 6,5 ÷ 7,5 |
| 9.4. Boiling point: | 1.413 °C |
| 9.5. Melting point: | 801 °C |
| 9.6. Water solubility | 317 g/l (20 °C) |
| 9.7. Specific gravity | 2,165 kg/l (25 °C) |

10. Stability and Reactivity.

Stability: Stable at normal temperatures and pressures.

Incompatibilities: Lithium, Bromine trifluoride.

Hazardous Decomposition Products: When heated to above 801 C° it emits toxic fumes of Chlorine and Sodium Oxide.

Hazardous Polymerization: Will not occur.

11. Toxicological Information.

Oral, mouse: LD50 = 4 g/kg

Oral, rat: LD50 = 3 g/kg

Carcinogenity: Not listed by ACGIH, IARC, NIOSH, NTP, OSHA

12. Ecological Information.

The product is practically non toxic to aquatic organism.

The product is soluble in water and may leach from soil into groundwater.

13. Disposal Consideration.

Whatever cannot be saved for recovery or recycling the product has to be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

Dispose of any cleanup materials and waste residue according to all applicable laws and regulations. Keep it out of drinking water sources.

14. Transport Information.

Regulatory Organizations: IATA, RID/ADR, IMO

Not regulated.

15. Regulatory Informations.

According to the relevant international laws and regulations Sodium Chloride is not classified as an hazardous material. It does not contain any toxic chemical substances.

16. Other Informations.

The informations above reported are believed to be accurate and represent the best informations currently available to us. They are valid only for the described product limitedly to its normal use. They do not guarantee any particular quality of the product. Users should make their own investigations to determine the suitability of the informations in case of particular purposes.