



Material Safety Data Sheets

Revision

2

1. IDENTIFICATION

Product Name Sodium Chloride

Other Names Common Salt; Halite; Pure Dried Vacuum (Pdv) Salt; Rock Salt; Salt; Sea Salt; SODIUM CHLORIDE (NaCl); Solar

Salt; Swimming Pool Salt

200-SC-1 Code No Uses Various

Chemical Family No Data Available

Chemical Formula NaCl

Chemical Name Sodium Chloride **Product Description** No Data Available Company Arman sina.co

Contact Information info@armansina.com

www.armansina.com

2. HAZARD IDENTIFICATION

Hazard Categories Not hazardous

Risk Phrases Irritating to respiratory system and skin.

Symbol

NOT hazardous

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium Chloride	NaCl	7647-14-5	100.0 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed Rinse mouth with water. Give water to drink provided person is conscious. Never give anything by mouth to an

unconscious person. Do NOT induce vomiting (vomiting is likely to occur). Obtain immediate medical attention,

especially if vomiting has not occurred.

Eve Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. In all cases of eye contamination, it

is a sensible precaution to seek medical advice.

Skin Remove contaminated clothing. Wash affected area with plenty of water. If irritation persists, seek medical attention.

Inhaled Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give

oxygen. Seek medical attention if effects persist.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of patient.

NOTES FOR MEDICAL PERSONNEL

Swallowed: Give water to drink. No need to induce vomiting.

Eye: Irrigate with copious quantities of slow flowing water for up to 15 minutes. Eyelids to be held open.

Skin: Brush off clothing and wash skin thoroughly with plenty of water.

Inhaled: Not normally a risk but some may experience some discomfort if working with dusty product. If exposure

has occurred allow the victim to drink water.

Medical Conditions Aggravated

by Exposure

May aggravate pre-existing dry skin conditions such as dermatitis.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move **General Measures**

fire exposed containers from fire area if it can be done without risk.

Flammability Conditions Salt in non-flammable but static electricity can be generated by pneumatic conveying.

Extinguishing Media In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions (dry chemical,

carbon dioxide, water spray or foam).

Fire and Explosion Hazard Product is a non-flammable solid.

Hazardous Products of

Combustion

Measures

Salt withstands temperatures up to its meting point and beyond without decomposing, but at very high temperatures (greater than approximately 800 deg C) a vapour may be emitted which is particularly irritating to the eyes. Contains

no water of crystallization. Does not react with alkalis at ordinary temperatures

Special Fire Fighting Instructions Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Personal Protective Equipment Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting

clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Flash Point No Data Available **Lower Explosion Limit** No Data Available **Upper Explosion Limit** No Data Available **Auto Ignition Temperature** No Data Available **Hazchem Code** No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Avoid prolonged contact with the skin and inhalation of dust concentrations, otherwise normal good handling and

housekeeping practice is adequate. No special protective clothing is required. An eyewash bottle with clean water should be available. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-

sparking tools and equipment.

Clean Up Procedures Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a

suitable, labelled container and dispose of promptly. Spillages should be swept up or may be safely water hosed to

drain under normal circumstances

Containment Stop leak if safe to do so. Isolate the danger area.

Environmental Precautionary

Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental

Protection Authority or your local Waste Management.

Evacuation Criteria Evacuate all unnecessary personnel.

7. HANDLING AND STORAGE

Handling Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and

recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Salt dust is non-flammable but static electricity can be generated by pneumatic conveying, therefore pipes should be

bonded and earthed, especially in environments where a spark could prove hazardous.

Storage Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as

listed in section 10. Due to its hydroscopic nature, salt should be stored in a dry atmosphere and away from concentrated acids. Absorbs moisture if the relative humidity is above 75 % Product should be stored in such a way that it does not present a hazard if product were to fall. This product is not classified dangerous for transport

according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No exposure standard has been established for this product by the Australian Safety and Compensation Council

(ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m3 (for inspirable dust) and

3mg/m3 (for respirable dust).

NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when

calculated over a normal 8 hour working day for a 5 day working week.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Exposure Limits No Data Available

Biological Limits No information available on biological limit values for this product.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local

exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source,

preventing dispersion of it into the general work area.

Static electricity can be generated by pneumatic conveying, therefore pipes should be bonded and earthed,

especially in environments where a spark could prove hazardous.

Personal Protection Equipment RESPIRATOR: If the process is such that salt dust is generated, a disposable face mask should be worn

(AS1715/1716).

EYES: Wear chemical safety goggles in situations where contact with the eyes may occur (AS1336/1337). HANDS: Gloves to be worn if prolonged contact is anticipated. Dry salt and concentrated solutions can cause

withdrawal of fluid from the skin (AS2161).

CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

Work Hygienic Practices Skin should be washed to remove salt. Dry salt and concentrated solutions can cause withdrawal of fluid from the

skin. An eyewash and hand washing facilities should be readily available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Crystalline Solid
Odour No Data Available
Colour White / Colourless
pH No Data Available

Vapour Pressure 1.3 hpa

Relative Vapour Density No Data Available

Boiling Point 1461°C

Melting Point 801°C

Freezing Point No Data Available
Solubility No Data Available
Specific Gravity No Data Available

Flash Point No Data Available **Auto Ignition Temp** No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available

Density 2.165 g/cc (of crystalline solid at 20 deg C)

Specific Heat No Data Available Molecular Weight No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available Particle Size No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available Vapour Temperature No Data Available Viscosity No Data Available **Volatile Percent** No Data Available **VOC Volume** No Data Available

Potential for Dust Explosion No dust explosion hazard.

Fast or Intensely Burning

Additional Characteristics

Characteristics

No Data Available

No Data Available

Flame Propagation or Burning

Rate of Solid Materials

No Data Available No Data Available

Non-Flammables That Could

Contribute Unusual Hazards to a

Properties That May Initiate or Contribute to Fire Intensity

No Data Available

Reactions That Release Gases or No Data Available

Release of Invisible Flammable

Vapours and Gases

No Data Available

10. STABILITY AND REACTIVITY

General Information Reacts with strong sulphuric acid or nitric acid to give hydrogen chloride gas. Chemical Stability Product is stable under normal conditions of use, storage and temperature. Conditions to Avoid Reacts with strong sulphuric acid or nitric acid to give hydrogen chloride gas.

Materials to Avoid Under wet conditions can corrode many common metals, particularly iron, aluminum and zinc. Stainless steel and

Hazardous Decomposition

Products

Reacts with strong sulphuric acid or nitric acid to give hydrogen chloride gas. Trace amounts of hydrogen chloride gas may be evolved at temperatures in excess of 800 deg C. Contains no water of crystallization. Does not react with

alkalis at ordinary temperatures.

Hazardous Polymerisation Hazardous Polymerisation has not been reported.

11. TOXICOLOGICAL INFORMATION

General Information Oral LD50 Rat: 3000 mg/Kg

Eyelrritant Dust may be irritating. Salt and salt solutions are not toxic to the eye but concentrations much above that of tears

cause a stinging sensation.

Ingestion

Salt is an essential constituent of the diet. It provides important body electrolytes and is the source of hydrochloric acid present in the gastric juices. The blood stream contains nearly 1% sodium chloride. In normal industrial use salt is non-hazardous. Acute and chronic toxic effects can result from the ingestion of excessive amounts of either salt or brine. Salt should not be used as an emetic to induce vomiting. High concentrations produce inflammatory reactions in the gastrointestinal tract and can cause vomiting, diarrhoea, convulsions and collapse. The ingestion of hypertonic solutions can cause fatal disturbance of body electrolyte and fluid balance particularly in the young and elderly. Less

than a tablespoon of salt may severely poison an infant and sometimes prove fatal.

Inhalation Very high concentrations of salt dust may result in inflammations of the mucus membranes of the respiratory tract.

SkinIrritant Irritation after prolonged contact. Dry salt and concentrated solutions can cause withdrawal of fluid from the skin and

may, on prolonged contact, produce irritation.

Carcinogen Category No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity A maximum value of 412 mg/l ensures the protection of all aquatic life.

Source: Water Research Centre - September 1990

96 hour LC 50 (Fish) 6750 mg/l 48 hour EC 50 (Daphnia) 2024 mg/l 72 hour IC 50 (Algae) 3014 mg/l Daphnia Sub acute 1062 mg/l Fish Subacute 433 mg/l BOD 5 day 0 mg/l

COD 0 mg/l

Earthworm Toxicity 1000 hg/cm2

Persistence/Degradability

No Data Available

No Data Available

Environmental Fate

No Data Available

Bioaccumulation Potential

No Data Available

Environmental Impact

No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with all local regulations. All empty packaging should be disposed of in

accordance with Local Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill Contact a specialist disposal company or the local waste regulator for advice. Collect solid salt in a conventional

manner, wash the spill area down with water if necessary.

No Data Available

14. TRANSPORT INFORMATION

Land Transport

Class

Proper Shipping Name SODIUM CHLORIDE (SALT)

Subsidiary Risk(s)

No Data Available

No Data Available

UN Number

No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Sea Transport

IMDG

Proper Shipping Name SODIUM CHLORIDE (SALT)

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available
EMS No Data Available

Marine Pollutant No

Air Transport IATA

Proper Shipping Name SODIUM CHLORIDE (SALT)

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

2

15. OTHER INFORMATION

Revision

Key/Legend < Less Than

> Greater Than atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm Square Centimetres CO2 Carbon Dioxide

COD Chemical Oxygen Demand

Degrees Celsius

EPA (New Zealand) Environmental Protection Authority of New Zealand

Degrees Fahrenheit

g Grams

g/cm Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism IDLH Immediately Dangerous to Life and Health immiscible Liquids are insoluable in each other.

inHg Inch of Mercury inH2O Inch of Water

K Kelvin kg Kilogram

kg/m Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre m Cubic Metre mbar Millibar mg Milligram

mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH2O Millimetres of Water mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health NOHSC National Occupational Heath and Safety Commission OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion ppm Parts per Million

ppm/2h Parts per Million per 2 Hours ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

. R Rankine

RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight