# Safety Data Sheet - Salt

### **Section 4: First Aid Measures**

Eye Contact With open eyelids irrigate with eyewash solution or water for a minimum of 15

minutes. Seek medical attention.

Ingestion Vomiting will probably occur. Give plenty of fluids. Seek immediate medical

attention especially if vomiting has not occurred.

Inhalation Move patient to fresh air. Keep warm and resting. Give fluids if desired. Seek

medical attention if breathing becomes difficult.

Skin Contact Wash the affected area(s) with water. Brush or remove affected clothing.

Advice to Doctor Treat symptomatically

## **Section 5: Fire Fighting Procedures**

Flammability Conditions This material is not flammable.

Suitable Extinguishing Use extinguishing agents that are suitable for surrounding fire. Equipment

Specific Hazards Arising Hydrogen chloride which is toxic by inhalation and a strong irritant of the eyes and skin may be formed during a fire.

**Protective Equipment &**Wear self-contained breathing apparatus for firefighting if necessary.
Precautions for Fire Fighters

### Section 6: Accidental Release Measures

Personal precautions, protective equipment & clean-up personnel should wear personal protective equipment as necessary to protect against skin and eye contact and inhalation of dust.

**Environmental Precautions** Use extinguishing agents that are suitable for surrounding fire.

Methods & materials for containment and cleaning up

Scoop up into a sealable container for recovery or disposal. Work up wind or increase ventilation.

Collect and seal in properly labelled containers or drums for disposal. Trace

Collect and seal in properly labelled containers or drums for disposal. Trace residues can be washed down with large quantities of water.

## Section 7: Handling & Storage

Handling Avoid eye contact and repeated or prolonged skin contact.

Storage Storage Store in a cool, dry location. Keep container closed when not in use. Keep out of sunlight to prevent deterioration of packaging material. Avoid incompatibles

described in Section 10.



# Safety Data Sheet - Salt

## **Section 8: Exposure Controls & Personal Protection**

**Control Parameters** 

Sodium chloride: None value assigned by Worksafe Australia. Should be considered as a 'Nuisance Particulate' 10 mg/m3, measured as inseparable

dust (TWA).

Time Weighted Average (TWA) exposure standard refers to the average concentration of a substance when calculated over a normal eight hour working

day/five day working week.

**Appropriate Engineering** 

Controls

Choose equipment and handling to minimise dust formation. Salt facilitates corrosion of many common metals (especially in damp conditions), iron, steel, zinc and aluminium being particularly susceptible, while stainless steel

is fairly resistant.

**Individual Protective** 

Measures

Where airborne concentrations of dust are high (> 10 mg/m3) an approved respirator meeting Australian Standard 1716 should be provided. Wear safety glasses to prevent eye injury. Always wash hands before eating, drinking,

smoking or using the toilet.

### Section 9: Physical & Chemical Properties

**Physical State** 

Crystalline solid

**Physical Appearance** 

White opaque crystalline solid

Odour

None

Flashpoint (°C):

Not Applicable

Melting Point (°C):

801°C

Boiling Point (°C):

1413°C

Solubility in Water (g/L):

357 @ O°C 391.2 @ 100°C

Vapour Pressure (pascals or

mm Hg at 25°C):

Not applicable

Flammability Limits (%):

Not applicable

Specific Gravity:

2.165 for compressed solid, 1.5 for granular form (bulk density)

Solubility

Soluble in water and glycerol. Slightly soluble in alcohol.

## Section 10: Stability & Reactivity

Reactivity

Sodium chloride is generally unreactive. Releases gaseous hydrogen chloride if mixed with a concentrated non-volatile acid such as sulfuric acid.

**Chemical Stability** 

Hygroscopic – absorbs moisture from the atmosphere

Possibility of Hazardous

Reactions

Sodium chloride will corrode many common metals particularly iron, aluminium, and zinc. Reaction with burning lithium forms the dangerously reactive sodium.

**Conditions to Avoid** 

Avoid damp / moist conditions. Avoid incompatible materials (below).

Incompatible Materials

Strong acids, bromine trifluoride, lithium

Hazardous Decomposition

**Products** 

When heated to decomposition it emits toxic fumes of hydrochloric acid and disodium oxide. May evolve chlorine gas when in contact with strong acids.

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# Safety Data Sheet – Salt

### **Section 11: Toxicological Information**

Health Effects No adverse health effects expected if the product is handled in accordance with this

Safety Data Sheet. Sodium chloride is listed in the Australian Inventory of Chemical Substances (AICS) as "identified as low concern to human health by application of expert validated rules". If the product is mishandled and overexposure occurs the

symptoms or effects that might occur are:

Acute Toxicity Not classified as toxic.

Sodium chloride LD50 rat (oral) = 3000 mg/kg.

Human Toxicity Data: Sodium chloride TDLO (oral) = 8.2 g/kg.

Skin Contact No irritation is likely after brief contact but repeated or prolonged contact with the skin

may cause irritation.

Eye Contact Contact with dust will irritate and may burn the eyes.

Ingestion Ingestion of large quantities may cause gastrointestinal irritation, nausea and/or

vomiting. TDLo human (oral) = 8.2g/kg.

Inhalation Breathing dust may irritate the nose and throat and cause coughing and chest

discomfort.

Chronic Effects Ingestion of large quantities can cause high blood pressure. May cause disturbance in

the bloodelectrolyte and fluid balance following repeated ingestion of large quantities. Inhalation can cause rapid ineffective breathing. No evidence to carcinogenicity.

## Section 12: Ecological Information

**Ecotoxicity** Concentrations of salt above 1000 mg/L in natural waterways may have a detrimental

effect on natural ecosystems.

## Section 13: Disposal Considerations

Disposal Methods Recover product where practical, vacuum or sweep up remnants (avoid generating

dust) & dispose of in sealed containers. Clean up with water but prevent release to water systems or environment. Waste material should be disposed of following local,

state or national EPA regulations.

## Section 14: Transport Information

Road and Rail
Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods
Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport Not classified as Dangerous Goods by the criteria of the International Maritime

Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS

GOODS.

Air Transport Not classified as Dangerous Goods by the criteria of the International Air Transport

Association (IATA) Dangerous Goods Regulations for transport by air: NON-

onstruction

DANGEROUS GOODS.

# Safety Data Sheet – Salt

## Section 15: Regulatory Information

Classification

Based on available information, not classified as hazardous according to Safe Work

Australia;

NON-HAZARDOUS CHEMICAL.

Poisons Schedule (SUSMP): None allocated.

This material is listed on the Australian Inventory of Chemical Substances (AICS).

## **Section 16: Other Information**

Version

2

**Date Authorised** 

15 August 2024

Reason for Change

Review and update of the information to bring into line with the requirements for safety data sheets under the Globally Harmonised System of classification and labelling of

chemicals (GHS).

**Please Note** 

The information contained herein is derived from a variety of sources and standards published internationally and despite all care taken to ensure that the information is

accurate we cannot warrant its accuracy.

Customers should make their own judgements and tests as to the products

characteristics and performance in the context of intended use.

Please Note: The information provided in this document has been derived from a variety of internationally published sources and standards. Safety levels are not 'no effect' levels and therefore do not guarantee protection to every worker. Given the nature of human biological variation workers exposed to a particular chemical may react at or below levels prescribed.

This information is not to be interpreted as a warranty. The manufacturer employs strict quality control procedures during the manufacture of these products. As the supplier and manufacturer do not control transportation, storage, handling or use of these products we assume no liability resulting from their use. There is no guarantee provided as to the suitability, performance, effects or results of or during the use of these products. Customers must make their own judgements and tests as to the characteristics and performance of the products in the context of intended use.



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## Technical Data Sheet Rock Salt

### **Product Identification:**

Product Name: Rock Salt

Chemical Name: Sodium Chloride

Common Names: Halite, De-icing Salt, Road Salt

CAS Number: 7647-14-9

#### **Product Description:**

Appearance: White to grey crystalline solid

Purity: Typically 95-99.1% NaCl

Source: Mined from underground deposits

#### **Physical and Chemical Properties:**

Molecular Formula: NaCl

Molecular Weight: 58.44 g/mol
 Melting Point: 801°C (1474°F)

Boiling Point: 1413°C (2575°F)

Solubility: Highly soluble in water (40 g/100 mL at 25°C)

Density: 1.18 g/cm³
 pH: 6.7-7.3 (in solution)°

Hygroscopicity: Absorbs moisture from the air

#### Specifications:

Particle Size Distribution:

Granular: 1-10 mmFine: 0.5-1 mm

Moisture Content: ≤ 1%<sup>o</sup>

Impurities:

Insolubles: ≤ 1.0%
Calcium: ≤ 0.3%
Magnesium: ≤ 0.1%
Additives: None

### **Applications:**

- · De-icing: Effective for melting ice on roads, sidewalks, and driveways
- Water Treatment: Used in water softening processes
- Industrial Uses: Raw material in chemical manufacturing
- Agricultural Uses: Livestock feed supplement and soil treatment





## Technical Data Sheet Rock Salt

#### **Quality and Compliance:**

- Standards: Meets ASTM D632-12 for road salt
- Regulations: Complies with relevant FDA and EU regulations

### Handling and Storage:

- · Storage Conditions: Store in a cool, dry place away from moisture
- Shelf Life: Indefinite under proper storage conditions
- Packaging Options:
- 1250 kg Jumbo bags
- Bulk

### Safety Precautions:

- Use personal protective equipment (PPE) such as gloves and goggles
- Avoid inhalation of dust<sup>o</sup>

#### **Health and Safety Information:**

- Safety Data Sheet (SDS): Available upon request
- Toxicological Information: Non-toxic when used as directed First Aid Measures:
- · Skin Contact: Wash with plenty of water
- Eye Contact: Rinse immediately with water for several minutes
- · Ingestion: Drink plenty of water, seek medical attention if necessary
- Environmental Impact: Non-hazardous, but excessive use can affect soil and water salinity

### **Contact Information:**

- Manufacturer: Al Asema Group Company for Construction and Salt Export
- Address: Siwa, Marsa, Matruh, Egypt
- Customer Service: +20 1128 561 316
- Technical Support: info@sadatglobal.com

