

ROAD SALT

Safety Data Sheet (SDS / MSDS)

HAZARD STATUS NOT CLASSIFIED	GHS LABEL NONE REQUIRED	MAIN COMPONENT NaCl 98.21%	RECOMMENDED USE ROAD DE-ICING
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SUPPLIER REVIEW NOTICE: Confirm the 24-hour emergency contact, particle-size range, final product composition, and any anti-caking additive before controlled commercial issue.

1	IDENTIFICATION
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PRODUCT IDENTIFIER	WhiteSalt Road Salt
OTHER NAMES	De-icing salt; road de-icer; sodium chloride
RECOMMENDED USE	Road de-icing and winter road-maintenance applications
RESTRICTIONS ON USE	Not intended for food, feed, pharmaceutical, or medical use. Use only for the agreed industrial application.
SUPPLIER	WhiteSalt OÜ
OFFICE	Harju maakond, Tallinn, Kesklinna linnaosa, Narva mnt 7-353, 10117, Estonia
FACTORY	New Borg El Arab City, Second Eastern Industrial Zone, Plot 68, Block 8, Egypt
WEBSITE / TELEPHONE	www.white-salt.com +20 10 9156 3301
EMERGENCY CONTACT	+20 10 9156 3301 — business contact; 24-hour availability must be confirmed. For urgent incidents contact local emergency services or a poison centre.

2	HAZARD(S) IDENTIFICATION
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CLASSIFICATION: Not classified as hazardous under the US OSHA Hazard Communication Standard 2024 or Regulation (EC) No 1272/2008 (CLP), based on available sodium-chloride references. [2][3][4]

GHS / Label Element	Status
Signal word	None
Hazard pictogram	None required
Hazard statements	None required
Precautionary statements	No mandatory GHS statements; use good industrial hygiene and dust control.

Other hazards: airborne dust may cause temporary mechanical irritation to eyes, skin, nose, or throat. Spilled granules may create a slip hazard. Concentrated releases may affect freshwater, soil, vegetation, and corrosion-sensitive surfaces.

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COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	EC No.	Typical concentration	Classification
Sodium chloride	7647-14-5	231-598-3	98.21%	Not classified
Moisture	7732-18-5	231-791-2	1.11%	Not classified
Natural insoluble / mineral constituents	Mixture	N/A	Balance; lot-dependent	Not classified at stated composition

Typical analytical constituents include water-insoluble matter, sulfate, calcium, magnesium, calcium sulfate, magnesium sulfate, and magnesium chloride. Analytical values may overlap and are not a formulation mass balance. Any anti-caking additive must be confirmed and reassessed for SDS applicability. [1]

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FIRST-AID MEASURES

Exposure route	First-aid measure
Inhalation	Move to fresh air. Rinse mouth and nose if dusty. Obtain medical advice if coughing, breathing discomfort, or irritation persists.
Skin contact	Remove contaminated clothing and wash exposed skin with water. Seek medical advice if irritation persists.
Eye contact	Rinse cautiously with clean water for at least 15 minutes, lifting eyelids. Remove contact lenses if easy to do. Obtain medical attention if symptoms persist.
Ingestion	Rinse mouth. Give water if conscious. Do not induce vomiting. Seek medical advice after a large ingestion or if symptoms occur.

Most important effects: dust may cause temporary mechanical irritation. Large ingestion may cause gastrointestinal discomfort and may disturb fluid or electrolyte balance. Treat symptomatically.

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FIRE-FIGHTING MEASURES

Sodium chloride is non-combustible. Use extinguishing media appropriate for the surrounding fire. Water spray, dry chemical, foam, or carbon dioxide may be used according to adjacent materials. Avoid high-pressure water streams that may disperse spilled bulk product or create contaminated runoff.

Under severe high-temperature conditions, irritating hydrogen chloride and sodium-oxide fumes may form. Firefighters exposed to smoke or decomposition products should wear full protective equipment and self-contained breathing apparatus. [3]

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ACCIDENTAL RELEASE MEASURES

- Avoid generating airborne dust. Wear eye protection and gloves; use respiratory protection where dust cannot be controlled.
- Isolate slippery areas and prevent large quantities from entering drains, surface water, soil, or sensitive vegetation.
- Recover clean material for reuse where suitable. Sweep, shovel, or vacuum into dry labelled containers.
- Avoid wet-cleaning methods that create uncontrolled saline runoff. Dispose of contaminated material under local requirements.

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HANDLING AND STORAGE

Topic	Requirements
Safe handling	Avoid breathing dust and prolonged eye or skin contact. Do not eat, drink, or smoke in handling areas. Wash hands after use.
Bulk operations	Enclose or ventilate conveyors, transfer points, screening, and loading operations where practical. Control spills and runoff.
Storage	Store dry, covered, cool, and well ventilated. Protect from rain, humidity, contamination, and incompatible materials.
Corrosion control	Moist salt and brine may accelerate corrosion of some metals. Use compatible equipment and maintain affected surfaces.
Incompatibilities	Keep away from strong acids and strong oxidizing agents.

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EXPOSURE CONTROLS / PERSONAL PROTECTION

No substance-specific occupational exposure limit was identified for sodium chloride in the reviewed references. Where dust is generated, comply with applicable local limits for nuisance dust or particulates not otherwise classified. [3][4]

Control category	Recommended measure
Engineering	General ventilation and local dust extraction at transfer, crushing, screening, or bagging points. Provide eyewash access near dusty operations.
Eyes / face	Safety glasses with side shields; use sealed goggles where dusty conditions are significant.
Hands / body	Work gloves, normal work clothing, and safety footwear. Remove salt-contaminated wet clothing and wash before reuse.
Respiratory	Normally not required with adequate ventilation. For excessive dust, use an approved particulate respirator under a respiratory-protection programme.
Hygiene	Wash hands and exposed skin after handling. Keep eating and drinking areas free from product dust.

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PHYSICAL AND CHEMICAL PROPERTIES

Property	Value / Description	Property	Value / Description
Physical state	Granular solid	Colour / odour	White / odourless
Melting point	Approx. 801 °C [3][4]	Boiling point	Approx. 1461 °C [3][4]
Flammability	Non-combustible	Flash point	Not applicable
Explosion limits	Not applicable	Auto-ignition	Not applicable
pH	Approx. 4.5–8.0 in reference aqueous solutions [3][4]	Water solubility	Approx. 358–360 g/L at 20 °C [3][4]
Density	Approx. 2.17 g/cm³ at 20 °C [4]	Vapour pressure	Negligible at ambient temperature
Molecular weight	58.44 g/mol for NaCl [3][5]	Typical moisture	1.11% [1]
Particle characteristics	Granular; size distribution to be confirmed	Viscosity / vapour density	Not applicable to a solid

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STABILITY AND REACTIVITY

REACTIVITY	No hazardous reactivity expected under recommended conditions.
CHEMICAL STABILITY	Stable under dry, recommended handling and storage conditions.
HAZARDOUS REACTIONS	Hazardous polymerisation does not occur.
CONDITIONS TO AVOID	Uncontrolled moisture exposure, excessive dust generation, and severe heat.
INCOMPATIBLE MATERIALS	Strong acids, strong oxidizing agents, and some reactive metals.
DECOMPOSITION PRODUCTS	Hydrogen chloride and sodium oxides may form under severe thermal conditions. [3]

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TOXICOLOGICAL INFORMATION

Likely exposure routes are eye and skin contact, inhalation of dust, and accidental ingestion. Dust may cause transient mechanical irritation to the eyes and upper respiratory tract. Prolonged wet contact may dry or irritate skin. Large ingestion may cause nausea, vomiting, gastrointestinal discomfort, thirst, or electrolyte disturbance.

Endpoint	Reference value for sodium chloride
Oral LD50, rat	Approx. 3,000–3,550 mg/kg [3][4]
Dermal LD50, rabbit	At or above 10,000 mg/kg [3][4]
Inhalation LC50, rat, 1 h	Greater than 42 mg/L [3]
Carcinogenicity	Not listed by IARC, NTP, or OSHA in the reviewed Fisher SDS. [3]

The product is not classified for acute toxicity, corrosion, sensitisation, mutagenicity, carcinogenicity, reproductive toxicity, specific-target-organ toxicity, or aspiration hazard based on available references. Values above are reference data for sodium chloride, not testing of the specific WhiteSalt mixture. [3][4]

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ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous; however, large or repeated chloride releases can increase salinity and may affect freshwater organisms, soil, vegetation, and water quality. Avoid uncontrolled discharge.

Endpoint / property	Reference information
Fish LC50, 96 h	Approx. 7.6–7.65 g/L [3][4]
Daphnia EC50, 48 h	Approx. 1.0 g/L [3][4]
Persistence / degradability	Inorganic substance; biodegradability is not applicable. Dissolved ions may persist.
Bioaccumulation	Not expected to bioaccumulate significantly as an inorganic salt.
Mobility in soil	High when dissolved because of high water solubility.
PBT / vPvB	Does not meet PBT/vPvB criteria in the reviewed European reference. [4]

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DISPOSAL CONSIDERATIONS

Reuse or recycle uncontaminated recovered product where practical. Dispose of contaminated salt and packaging under applicable national, regional, and local regulations. Do not discharge large quantities to drains, surface water, groundwater, or soil. Waste classification depends on contamination and local rules; the waste generator is responsible for the final determination.

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TRANSPORT INFORMATION

TRANSPORT STATUS: Not regulated as dangerous goods under the reviewed DOT, TDG, IATA, IMDG/IMO, ADR, or RID references. [3][4]

Transport item	Status
UN number	Not assigned
UN proper shipping name	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable
Environmental hazard / marine pollutant	Not classified as a marine pollutant
Special precautions	Protect from moisture and contamination; secure bulk cargo and control dust and runoff.
Transport in bulk	Follow applicable vessel, port, terminal, and contractual requirements for bulk road salt.

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REGULATORY INFORMATION

Sodium chloride is not classified as hazardous under the US OSHA Hazard Communication Standard 2024 or EU CLP based on the reviewed references. CAS No. 7647-14-5 and EC No. 231-598-3 apply to sodium chloride. The Fisher reference identifies sodium chloride as active on the US TSCA inventory and lists it on several international chemical inventories. [2][3][4]

Regulatory obligations may differ by destination country and final formulation, including any anti-caking additive. The importer and supplier should verify current jurisdiction-specific requirements before placing the product on the market.

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OTHER INFORMATION

ISSUE DATE	16 August 2026
REVISION / DOCUMENT	Revision 01 WS-SDS-RS-001
PREPARED FOR	WhiteSalt OÜ
DOCUMENT STATUS	Supplier review required before controlled commercial issue
PRIMARY CHANGE	Initial issue based on available product analysis and sodium-chloride safety references

Abbreviations: ADR — carriage of dangerous goods by road; CAS — Chemical Abstracts Service; CLP — Classification, Labelling and Packaging; DOT — US Department of Transportation; EC50 — median effective concentration; GHS — Globally Harmonized System; IATA — International Air Transport Association; IMDG — International Maritime Dangerous Goods Code; LC50 — median lethal concentration; LD50 — median lethal dose; PBT — persistent, bioaccumulative and toxic; PPE — personal protective equipment; RID — carriage of dangerous goods by rail; SDS/MSDS — Safety Data Sheet / Material Safety Data Sheet; vPvB — very persistent and very bioaccumulative.

REFERENCES

- [1] WhiteSalt, Road Salt TDS and CFR Commercial Offer, Quotation WS-CFR-210526-02, 21 May 2026.
[2] US OSHA, Appendix D to 29 CFR 1910.1200 — Safety Data Sheets (Mandatory): <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1200AppD>
[3] Fisher Scientific, Safety Data Sheet — Sodium chloride, Revision 18 December 2025.
[4] DC Fine Chemicals, Safety Data Sheet — Sodium chloride, Revision 4 November 2024: [https://www.dcfinechemicals.com/catalogo/Hojas%20de%20seguridad%20\(EN\)/111582-SDS-EN.pdf](https://www.dcfinechemicals.com/catalogo/Hojas%20de%20seguridad%20(EN)/111582-SDS-EN.pdf)
[5] PubChem, Sodium Chloride, CID 5234: <https://pubchem.ncbi.nlm.nih.gov/compound/Sodium-Chloride>

DISCLAIMER: This SDS is guidance for safe handling, storage, transport, and disposal of the specified product. It is not a product specification or warranty. WhiteSalt must review and approve the emergency contact, composition, anti-caking additive, particle-size specification, destination-country requirements, and revision control before issuing this document as a controlled supplier SDS.