

PRODUCT SAFETY DATA FOR DE-ICING ROAD SALT

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Product Name: Brown De Icing Rock Salt & Strada De Icing White Rock Salt (rock)

Supplier: PLR Solutions Ltd, Unit 2, Cross Street, Longbridge Hayes,
Stoke-on-Trent, ST6 4PU. Tel: 01782 790634 Fax: 01782 790635

2. PRODUCT DESCRIPTION

Salt = Sodium Chloride = NaCl

3. COMPOSITION

The composition by weight is 39.4% Sodium and 60.6% Chlorine.

Pure Sodium Chloride is a colourless crystalline solid

4. PROPERTIES

- Melting point 802°
- Boiling point 1413°
- Density of crystalline solid at 20°c 2,165 g/cc
- Vapour Pressure 2.4mm Hg at 747°c
- Solubility in water 35.6g/100g at 0°c and 39.2g/100g at 100°c
- Contains no water of crystallisation
- Absorbs moisture from damp atmospheres above 75% relative humidity
- Does not react with alkalis at ordinary temperatures
- With strong Sulphuric Acid or Nitric Acid, reacts to give Hydrogen Chloride gas
- In wet conditions can corrode many common metals, particularly Iron, Aluminium and Zinc. Stainless Steel & Monel resist attack
- Has a preservative effect on timber

5. STABILITY AND REACTIVITY

Hazardous Reactions : Reactions with concentrated acid will produce hydrogen chloride.
Under wet conditions will corrode many common metals, particularly iron, aluminium and Zinc.

6. FIRE & EXPLOSION HAZARDS

Non Hazardous

Salt withstands temperatures up to its melting point and beyond without decomposing, but at very high temperatures a vapour is emitted which is particularly irritating to the eyes.

7. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation

8. **TRANSPORTATION INFORMATION**

Not classified as dangerous for transport

9. **REGULATORY INFORMATION**

Not classified as dangerous for Supply/Use

Static electricity can be generated by pneumatic conveying, therefore, pipes should be bonded and earthed, especially where a spark could prove hazardous.

Due to its hygroscopic nature, evaporated salt should be stored in a dry atmosphere and away from concentrated acids.

Spillage's should be swept up or may be safely water-hosed to drain under normal circumstances

10 **PERSONAL PROTECTION AND EXPOSURE CONTROLS**

Wear suitable protective clothing, gloves and eye/face protection.
An approved dust mask should be worn if exposure to high levels of dust is likely

Occupational Exposure Standard :

Long Term Exposure Limit
(8hr time weighted average)

Total Inhalable Dust : 10mg/kg

Respirable Dust : 4mg/kg
(UK HSE Guidance Note EH40)

11. **ECOLOGICAL INFORMATION**

Solubility	The product is soluble in water
Toxicity	Low toxicity to aquatic organisms
Effect on Treatment	Adverse effects would not be expected
Ingestion	Wash out with water and give 200-300ml (half a pint) of water to drink. Obtain medical attention if ill effects occur.
Skin	Dry salt and concentrated solutions can cause withdrawal of fluid from the skin and may, on prolonged contact, produce irritation
Eyes	Salt and Salt solutions are not toxic to the eye but concentrations above that of tears may cause a stinging sensation.
Further Medical Treatment	Symptomatic treatment and supportive therapy as indicated

12. FIRE FIGHTING MEASURES

Non – combustable

Extinguishing Media : As appropriate for surrounding fire

Fire Fighting Protective Equipment : No special requirements

13. ACCIDENTAL RELEASE MEASURES

- Clear up spillages
- Transfer to a container for disposal
- Wash the spillage area with water
- Spillages or uncontrolled discharges into watercourses, drains or sewers must be IMMEDIATELY alerted to the Environment Agency or other appropriate regulatory body

14. HANDLING AND STORAGE

TLV: Not listed by ACGIH 1980

Avoid prolonged contact with the skin and inhalation of high dust concentrations, otherwise normal good handling and housekeeping practice is adequate. No special clothing is required.

15. FIRST AID TREATMENT

- **Inhalation** : remove patient from exposure
- **Skin Contact** : wash skin with water
- **Eye Contact** : irrigate with eyewash solution or clean water

Product Code: KS1095-01

PIONER STRADA DE – ICING SALT

Product Description :	Sieved White Rock Salt
CAS. Ident. Nr	7647-14-5
EINECS-Ident.Nr.	231-598-3

Typical Chemical Analysis:	Specification	Analysis Method
Material with melting effect	%98.00	ISO 2481
Trace Minerals	% 1.7	ISO 2482
H ² O	% <1.0	ISO 2483

Anti-Caking Agent

E535, calculated as K ₄ [Fe (CN) ₆] Anhydr. And E500	15mg/kg	ESPA-CN 11196
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Typical Sieve Analysis

>3.2mm	% 10	DIN 66165
3.2 – 0.2mm	% 80-85	
> 0.20mm	% 5	

Density:	1.05-1.25 g/cm ³	ISO 3944
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Forms of Delivery

Bags	In 25kg PE-bags on shrink-wrapped non returnable pallets of 1225kg
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Spread Rates	Suggested rates of 10-20gm per m ² , effective to temperatures down to -7°C Pioneer Strada De-Icing Salt complies with the chemical requirements of British Standards 3247 for Winter maintenance.
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