Safety data-sheet

Saltcom De-icing salt

1. Identification of the substance / preparation

Name of product — **Saltcom De-icing salt**

Manufacturer / Distributor
Saltcom a division of van de Reijt meststoffen B.V.
Nieuwe Bredasebaan 4 - 4825 BP Breda
Telefoon +31 (0)76 571 26 20 - Telefax +31 (0)76 587 60 93
info@vdreijtfert.nl

Advice
Van de Reijt meststoffen B.V.
Nieuwe Bredasebaan 4 - 4825 BP Breda
Telefoon +31 (0)76 571 26 20 - info@vdreijtfert.nl

Emergency advice
Van de Reijt meststoffen B.V.
Nieuwe Bredasebaan 4 - 4825 BP Breda
Telefoon +31 (0)76 571 26 20 - info@vdreijtfert.nl

Recommended Applications — De-Icing, snow removal.

Effect — Melting of snow and ice.

2. Possible Hazards

R-Phrases
not applicable

Special hazards information for humans and environment
Not classified as a dangerous product according to the EC-guideline in the latest version.

3. Composition / Information on ingredients

CAS-Nr. 7647-14-5 — **Sodium chloride (NaCl)**
EWG-Nr. (EINECS/ELINCS) 231-598-3

Additional advice
The informations refer to pure material, because by-minerals or additives are not safety-relevant .

4. First aid measures

General Information
Consult physician with continuous complaints.

In case of inhalation
In case of inhalation ensure fresh air.

In case of skin contact
In case of skin contact rinse off with water.

In case of eye contact
In case of eye contact rinse thoroughly with water. .

After swallowing
Rinse mouth with water and drink plenty of water.

5. Fire-fighting measures

Suitable extinguishing material
The product is not combustible.

Extinguishing material that may not be used for safety reasons
None

Special exposure hazards arising from the substance, combustion products or resulting gases
In the event of fire: Hydrogen chloride (HCl) can be set free.

Special protective equipment for fire-fighters
In the event of fire and/or explosion do not breathe fumes.

Additional information
Collect contaminated fire fighting water separately, may not be discharged into the drains

6. Measures during unintentional release

Personal precautionary measures
Avoid dust formation

Environmental precautions
Do not discharge into the drains or bodies of waters

Methods for cleaning / picking up
Avoid dust formation
Disposal according to regulations
Flush away residues with water
Pick up mechanically and send for disposal

Additional Information
Information for safe handling see Chapter 7.
Information for personal protective equipment see Chapter 8.
Information for disposal see Chapter 13.

7. Handling and Storage

Advice on safe handling
No special measures necessary if used correctly.
Advice on protection against fire and explosion
The product is not combustible.
No special measures necessary.
Requirements for storage rooms and vessels
Refer to the National Regulations for Sodiumchloride (e.g. Germany: WGK 1, footnote 14).
Advice on storage compatibility
Do not store together with strong acids
Do not store together with oxidizing agents.
Further Information on storage conditions
Store in a dry place.
Storage Group 13 (German VCI-classification)
Information on storage stability
Unlimited stability.

8. Exposure controls / personal protection

Additional advice on system design
None
Additional advice
None
Respiratory protection
In case of dust formation wear micro dust mask.
Hand protection
Not required.
Eye protection
In case of dust formation wear goggles.
Skin protection
None
General protective measures
None
Hygiene measures
Do not eat or drink during work.
Brush soiled clothing.
After work wash thoroughly.

9. Physical and chemical properties

Form	Colour	Odour
crystalline	Colourless	Odourless

Data relevant for safety	Value	Temperature	At	Method	Remark
pH-value in delivery state	6 - 9	20 °C	50 g/l	DIN 38404-5	neutral
boiling point	1461 °C		1013 hPa		
melting point	801 °C				
Flash point	not applicable				
Flammable solid	No				
Flammable gas	No				
Combustion temperature	No				
Autoignition	No				
Lower explosion limit	No				
Upper explosion limit	No				
Vapour pressure	0 mbar	20 °C			
Density	2,1615 g/cm^3	25 °C	1013 hPa		
Bulk density	Rocksalt: 1050 – 1250 kg/m^3		Vacuum salt: 1100 – 1300 kg/m^3		
Solubility in water	359 g/l	20 °C	1013 hPa		
Partitioncoefficient (log pOW)	not determined				
Viscosity 1	not applicable				
Solvent separation test	not applicable				
Combustion value	1				

Oxidizing properties
None
Explosive properties
None
Additional information
Physical data refer to pure product.

10. Stability and reactivity

Conditions to avoid
None
Materials to avoid
Reactions with strong acids.
Reactions with oxidizing agents.
Corrosive to metals.
Hazardous decomposition products
With strong acids: Hydrogen chloride (HCl)
With oxidizing agents: chlorine gas (Cl_2)

11. Toxicological information

Acute toxicity / irritability / sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	3000 mg/kg	rat		Ref. (5)
LD50 acute dermal	not determined			
LC50 acute inhalation	not determined			
Irritability skin	slightly irritant	rabbit		Ref. (6)
Irritability eye	slightly irritant	rabbit		Ref. (6)
sensitization skin	no			experiences
sensitization respiratory system	no			experiences

Toxicological test (Additional information)
No experimental indication of genotoxic effects.
Substance has no mutagene activity (Ames-Test).

Additional information
Toxicological data refer to pure product.
Our data are not sufficient for total texture judgement.
Follow the usual hygiene directives for handling with chemicals.

12. Ecological information

Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Remark
Physico-chemical degradability	not applicable			
Biological degradability	not applicable inorganic product, cannot be eliminated from water by biological purification process			
Degradability	not applicable inorganic product, cannot be eliminated from water by biological purification process			
Biological eliminability	not applicable inorganic product, cannot be eliminated from water by biological purification process			

Ecotoxicological effects

	Value	Species	Method	Remark
Fish	LC50 7341 mg/l (96 h)	Carassius Auratus		Ref. (1)
Daphnia	EC50 4135 mg/l (48 h)	Daphnia magna		Ref. (2)
Algae	EC50 9000 mg/l (7 d)	Potamogeton		Ref. (3)
Bacteria	EC17 577 mg/l (5 d)	Paramecium tetranrelia		Ref. (4)

Behaviour in sewage plant
When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

Additional ecological information

	Value	Method	Remark
AOX			not applicable

General information
With intended application no ecological problems likely.

13. Disposal considerations

Waste code No.	Name of Waste
06 03 14	Solid salts and solutions except those mentioned in 06 03 11 and 06 03 13.

Recommendations for the product
In accordance with regulations for special waste, discharge of after pretreatment, to an authorized special waste disposal site.
Recommendations for the packaging
Uncontaminated packaging may be taken for recycling.
Contaminated packaging should be emptied as far as possible and discharged like product.
Recommended cleansing agent
no

14. Transport information

Land and inland navigation transport (ADR/RID/GGVSE)
Remarks
No hazardous material as defined by the regulations.

15. Regulatory information

Remarks for classification
No
R-phrases
No
S-phrases
No
National regulations
Restriction of occupation
No

Decree for case of interference	not applicable	
Classification acc. to VbF	VbF: is not subject to decree for combustible liquids.	
German TA Luft Remarks		
no		
Water hazard classification	1	KBwS classification

16. Other Information

Training advice
no
Recommended uses and restrictions
no
Further Information
The information given is based on our present knowledge and is not meant to guarantee product properties. Recipients of our product must take responsibility for observing existing laws and regulations.
Refer to product information.
All informations of this safety-data-sheet refer to pure substance.
Sources of key data used
Ref. (1): Adelman IR et al (1976) J. Fish. Res. Board Can., 33, 203-208
Ref. (2): Biesinger, K.E. et al (1972) J. Fish. Res. Board Can., 29(12), 1691
Ref. (3): Environmental Protection Agency, Water Quality Criteria Data Book: Effects of chemicals on aquatic life, Environmental Protection Agency, Water Quality Office, Washington, D.C., Vol.3, p128-130(1971)
Ref. (4): Cronkite, D.L., Gustafson, A.N., Bauer, B.F., Role of protein synthesis and ninhydrin-positive substances in acclimation of PARAMECIUM TETRAURELLIA to high NaCl, J. Exp. Zool., No.233, p21-28 (1985)
Ref. (5): (1971), Toxicology and Applied Pharmacology, 20, p.57 (1971)
Ref. (6): EUCLID data sheet CAS-Nr. 7647-14-5