Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Revision date: 1/11/2021 Supersedes version of: 11/26/2015 Version: 10.0

Salt (sea salt, rock salt, vacuum salt)
Name of substance : Sodium chloride

'A safety data sheet is not required for this product under Article 31 of REACH'.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	:	Substance
Substance name	:	Broxo-zout (sea salt, rock salt, vacuum salt)
		Name of substance : Sodium chloride : Sodium chloride
Chemical name	:	
IUPAC name	:	231-598-3
EC-No.	:	7647-14-5
CAS-No.	:	NaCl
Formula	:	Trade product
Product group		

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Use of the substance/mixture	:	Salt for food, pharmaceutical (Sanal P, P+, SQ), feed, water treatment and industrial use. Each use is product specific. See Product Data Sheet for individual application

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

VAT Cleaning Solutions Muntstraat 2
4903 PA Oosterhout
tel. +31 162 521287
e mail: info@vatgroep.nl

1.4. Emergency telephone number

Emergency number	:	The emergency telephone number for France is the ORFILA (INRS) number: + 33 (0) 1 45 42 59 59. This number gives details of all the poison control centres in France. These poison control and toxicovigilance centres provide free medical care 24/7 (excluding the cost of the call). For the emergency telephone number for your own country, please contact the relevant local authorities and visit the ECHA (European Chemicals Agency) website: http://echa.europa.eu/help/nationalhelp_contact_en.asp

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

Other hazards which do not result in classification	Slight irritation of the skin and eyes is possible, in particular in the event of prolonged contact. If large quantities of dust are inhaled, possible irritation of breathing passages with coughing.

2.2. Label elements

Labelling according to the Regulation (EC) No. 1272/2008 [CLP]

Extra phrases : Name of substance : Sodium chloride
CAS number: 7647-14-5.

2.3. Other hazards

Other hazards which do not result in classification : Slight irritation of the skin and eyes is possible, in particular in the event of prolonged contact. If large quantities of dust are inhaled, possible irritation of breathing passages with coughing.

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Comments : Name of substance : Sodium chloride

Additives : Sodium hexacyanoferrate decahydrate (only in cases where the product is treated with anti-caking). Not applicable to Sanal pharmaceutical products. See individual Product Data Sheet for specific product composition.

Substance type : Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Salt (sea salt, rock salt, fire-source salt) Name of substance : Sodium chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	100	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : In the event of inhalation of dust, remove the person to fresh air, keep warm and at rest. Consult a doctor if respiratory symptoms appear or persist.

First-aid measures after skin contact : Wash with plenty of water/... Seek medical advice if an irritation appears.

First-aid measures after eye contact : Rinse carefully with plenty of water with the eyelids held wide open. Seek an eye specialist's advice if an irritation appears.

First-aid measures after ingestion : If the person is conscious, rinse mouth with water. Do not induce vomiting without seeking medical advice. Call a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Chronic symptoms : See Sub Heading 2.1/2.3.

4.3. Indication of any immediate medical attention and special treatment needed

No information / data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray with additives, chemical powder, chemical foam, carbon dioxide extinguisher.

Unsuitable extinguishing media : Solid water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products when fire : If exposed to high temperatures, the product may release hazardous decomposition products such as carbon monoxide and carbon dioxide.

5.3. Advice for firefighters

Protection when fire : Do not enter the danger zone without suitable chemical protection clothing and self-contained breathing apparatus.

Other information : Packaging exposed to heat or open flames should be cooled with a fine water spray. Prevent fire-fighting water from entering drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Personal protection : see section 8.

Emergency procedures : Avoid contact with eyes and skin. Avoid breathing dust.

6.1.2. For emergency responders

Protective equipment : Personal protection : see section 8.

Emergency procedures : Avoid contact with eyes and skin. Avoid breathing dust.

6.2. Environmental precautions

Avoid release into natural bodies of water, waste water or the soil. Contain the leak or spill from spreading if it can be done without any danger. Do not discharge to surface water or to sewers. Inform local authorities if significant leaks cannot be contained.

6.3. Methods and material for containment and cleaning up

For containment : Suitable advice concerning the containment of a spill; the following containment methods can be envisioned:

- To limit the production of dust or vapour: cover the product with absorbent granules (inert, non flammable and non combustible).

- In case of large spills: install a protective enclosure, cover the sewers.

Collect the absorbent/product mixture and put it in compatible packaging for subsequent disposal in accordance with the regulations in force.

In case of a large spill, inform the competent authorities if the situation cannot be rapidly and effectively controlled.

The absorbent/product mixture shall be handled with the same precautions as the product itself.

Methods for cleaning up : To clean: wash the contaminated area making sure not to contaminate the natural environment. During the cleaning operations, continue to abide by the handling precautions.

6.4. Reference to other sections

For information on handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Avoid contact with skin and eyes. Avoid breathing dust.
Hygiene measures	:	Use personal protective equipment (appropriate gloves, splash goggles, suitable work clothing) in accordance with industrial hygiene best practices (see section 8).

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Comply with applicable regulations.
Storage conditions	:	- Conditions for storing the product in safety: Store in its original packaging, closed and in a dry and well ventilated area. Avoid extreme temperatures (heat and cold). - For more details on storage conditions to ensure product quality: Refer to the data sheet.
Incompatible products	:	Strong acids. Oxidising agent. Strong bases.

7.3. Specific end use(s)

No data / information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Use only in well-ventilated areas.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:
Goggles with lateral protection (according to standard EN 166).

8.2.2.2. Skin protection

Skin and body protection:
Skin protection appropriate to the conditions of use should be provided

Hand protection:
At the very least use chemical-resistant, leak-proof gloves (in accordance with standard EN 374). The use of this product means that the type of material and thickness of the gloves as well as the time taken to break down the material used to make the gloves cannot be decided until an in-depth study of the workstation has taken place, leading to a clear definition of the conditions of use and the most accurate possible evaluation. The gloves should therefore be chosen with the advice of the personal protective equipment manufacturer. Due to the many possible conditions of exposure, the user should consider the actual period of use of a chemical protection glove to be significantly shorter than the period prior to permeation. It is essential to comply with the manufacturer's instructions for use, in particular concerning minimum thickness and minimum period prior to permeation. This information in no way replaces the compliance tests conducted by the final user. The protection provided by the glove depends on the conditions in which the substance/mixture is used. It is recommended to wear gloves (Neoprene or nitrile in accordance with standard EN374).

8.2.2.3. Respiratory protection

Respiratory protection:
In the event of insufficient ventilation, wear suitable respiratory equipment. Dust/aerosol filter, type P3 (in accordance with standard EN 143)

8.2.2.4. Thermal hazards
No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release into natural bodies of water, waste water or the soil.

Consumer exposure controls:

Take off contaminated clothing and wash before reuse.

Other information:

Do not eat, drink or smoke in the workplace under any circumstances.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	Eggshell white.
Odour	:	Odourless.
Odour threshold	:	Not available
Melting point	:	≈ 801 °C (for sodium chloride)
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive limits	:	Not applicable
Lower explosive limit (LEL)	:	Not applicable
Upper explosive limit (UEL)	:	Not applicable
Flash point	:	Not applicable

Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
pH	:	Aqueous solution 100 g / l: 6.7 to 9.0
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable
Solubility	:	35.85 g % g water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50 °C	:	Not available
Density	:	saturated solution 20 ° C: 1.2
Relative density	:	2,163
Relative vapour density at 20 °C	:	Not applicable
Particle size	:	Not available
Particle size distribution	:	Not available
Particle shape	:	Not available
Particle aspect ratio	:	Not available
Particle aggregation state	:	Not available
Particle agglomeration state	:	Not available
Particle specific surface area	:	Not available
Particle dustiness	:	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity relating to the substances, containers and contaminants to which the substance or mixture may be exposed during their transport, storage and use : No data available.

10.2. Chemical stability

The product is stable in normal conditions of use. Stability of the substance or mixture under normal and predictable storage and handling room conditions in terms of temperature and pressure : Chemically stable under standard room conditions (room temperature).

10.3. Possibility of hazardous reactions

Reaction or polymerisation of the substance or mixture releasing excessive heat or pressure or generating other dangerous conditions : This product will not polymerise by releasing excessive heat or pressure or by generating other dangerous conditions. (See section 10.1 for reactivity which can generate risks by taking into account the substances, containers and contaminants to which the substance or mixture may be exposed during their transport, storage and use.).

10.4. Conditions to avoid

Listing of conditions such as temperature, pressure, light, shocks, electrostatic discharges, vibrations or other physical stresses which may lead to a dangerous situation : According to our knowledge, temperature, pressure, light, shocks, etc. do not lead to a dangerous situation. Keep away from open flames, hot surfaces and ignition sources.

10.5. Incompatible materials

Families of substances or mixtures, or specific substances, such as water, air, acids, bases, oxidisng agents, with which the substance or mixture may react by generating a dangerous situation : Strong oxidising agents, strong acids and strong bases.

10.6. Hazardous decomposition products

Known dangerous decomposition products and products which may be reasonably predictable as such following use, storage, pouring and heating : This product does not decompose under normal conditions. Decomposition products in case of fire : consult section 5.2.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ACUTE TOXICITY (ORAL) : Not classified

ACUTE TOXICITY (DERMAL) : Not classified

ACUTE TOXICITY (INHALATION) : Not classified

ADDITIONAL INFORMATION : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

Sodium chloride (7647-14-5)	
LD50 oral rat	3550 mg / kg (bibliographic information)

SKIN CORROSION/IRRITATION : Not classified

pH: Aqueous solution 100 g / l: 6.7 to 9.0

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

SERIOUS EYE DAMAGE/IRRITATION : Not classified

pH: Aqueous solution 100 g / l: 6.7 to 9.0

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

RESPIRATORY OR SKIN SENSITISATION : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

GERM CELL MUTAGENICITY : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

CARCINOGENICITY : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

REPRODUCTIVE TOXICITY : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

STOT-SINGLE EXPOSURE : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

STOT-REPEATED EXPOSURE : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

ASPIRATION HAZARD : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE :

Dermal contact : In the event of contact with the skin: slight irritation possible following prolonged contact.

Eyes contact : Contact with the eyes: slight irritation is possible, particularly in the event of prolonged contact

Inhalation : If large quantities of dust are inhaled, possible irritation of breathing passages with coughing.

Ingestion : No data available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Not concerned

11.2.2 Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Sodium chloride (7647-14-5)	
LC50 - Fish [1]	(P. promelas): 5560-6080 mg / L (96 h) - Bibliographic information
LC50 - Fish [2]	(L. macrochirus): 9675 mg / L (96 h in hard water) - Bibliographic information
EC50 - Crustacea [1]	(Daphnia magna): 1000 mg / L (48h) - Bibliographic information

12.2. Persistence and degradability

Sodium chloride (7647-14-5)	
Persistence and degradability	To the best of our knowledge, no study has been carried out on this natural extract for the moment.

12.3. Bioaccumulative potential

Sodium chloride (7647-14-5)	
Bioaccumulative potential	Not established. No data / information available.

12.4. Mobility in soil

Sodium chloride (7647-14-5)	
Ecology - soil	Effect on the surface of plants (metabolic disturbance) and on the soil (mineral imbalance).

12.5. Results of PBT and vPvB assessment

Sodium chloride (7647-14-5)
PBT: not relevant – no registration required
vPvB: not relevant – no registration required

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of in accordance with the local/national safety regulations in force.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

UN-No. (ADN) : Not applicable

UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : NOT APPLICABLE

Proper Shipping Name (IMDG) : NOT APPLICABLE

Proper Shipping Name (IATA) : NOT APPLICABLE

Proper Shipping Name (ADN) : NOT APPLICABLE

Proper Shipping Name (RID) : NOT APPLICABLE

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Special transport precautions : For information on handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

IBC code : No available data for bulk transport in accordance with annex II of the MARPOL 73/78 Convention and the IBC Code; if necessary, consult the supplier.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

- Salt (sea salt, rock salt, fire-source salt)
- Name of substance : Sodium chloride is not on the REACH Candidate List
- Salt (sea salt, rock salt, fire-source salt)
- Name of substance : Sodium chloride is not on the REACH Annex XIV List
- Salt (sea salt, rock salt, fire-source salt)
  Name of substance : Sodium chloride is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.
- Salt (sea salt, rock salt, fire-source salt)
  Name of substance : Sodium chloride is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Ensure all national/local regulations are observed.

France

Occupational diseases	
Code	Description
RG 78	Diseases caused by sodium chloride in salt mines and their dependencies

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:
Following major changes, the SAFETY DATA SHEET has been completely revised.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.