

EC Safety Data Sheet

according to regulation (EC) no. 1907/2006

SODIUM CHLORIDE / Tablet salt

Print date: 02. 01. 2025

Version 3.00

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SECTION 1: Designation of the substance/preparation and the company

1.1 Product identifier

Trade name: esco PDV Salt (various granulations, salt-tablets, compacted salt)
esco Rock salt (various granulations, salt-tablets)
esco NaCl-brine (26 % and 22.5 %)*
*(Data refer to the dissolved substance)

Chemical name sodium chloride

EC-No. 231-598-3

CAS-No. 7647-14-5

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

Use of the substance/mixture

Watersoftening, process regulator or aid, manufacture of food products.

1.3. Details of the supplier of the safety data sheet

Company name: CERTUSS GmbH
Street: Hafenstr. 65
City: D-47809 Krefeld
Phone: +49 (0) 2151 578-0
Contact partner: Mr. Hamacher
E-mail: t.hamacher@certuss.com
Informing department: Technical Director
Monday to Thursday from 9 – 16 (9 a.m. to 4 p.m.), Friday 9 – 14 (9 a.m. to 2 p.m.)
Emergency number +49 (0)2151 578-123 outside business hours

SECTION 2: Possible hazards

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

No labelling applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%
sodium chloride	CAS-NO. 7647-14-5 EC-NO. 231-598-3	–

SECTION 4: First aid measures

4.1. Description of first aid measures

General

In case of doubt or persistent symptoms, consult always a physician.

After inhalation

Remove person to fresh air and keep comfortable for breathing.

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After skin contact

Wash skin with plenty of water.

After eye contact

Rinse eyes with water as a precaution.

After ingestion

Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after ingestion: If the quantity swallowed is significant : Nausea. Vomiting.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media

Report prepared by Fertilizers Europe/November 2012. Water spray. Dry powder. Foam.

Unsuitable extinguishing media

Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire Toxic fumes may be released. Hydrogen chloride.

5.3. Advice for firefighters

Protection during firefighting:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information:

Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:

Wear personal protective equipment..

6.1.1 For non-emergency personnel

Emergency procedures

Ventilate spillage area.

6.1.2 For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow into drains or water courses. Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Mechanically recover the product. Avoid dust formation. Wash away remainder with plenty of water. Disposal must be done according to official regulations. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information

Dispose of materials or solid residues at an authorized site. Ensure adequate air ventilation. Disposal must be done according to official regulations.

6.4 Reference to other sections

For further information refer to section 13. See Headings 7 and 8. Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe dust. Avoid dust formation.

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Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a well-ventilated place. Store at room temperature. Protect from moisture. Keep cool.

Other information on storage

None.

Incompatible materials

Acids. Strong oxidizing agent.

7.3. Shelf life

The printed date (batch) in the position YY MM XXX on the container shows the date of production.

The product must be used within 1 year and must be stored in a dimmed location.

In as far as dosing is not carried out directly from a canister, store it and further storage vessels in a cool and dark space. If you do not, the durability and functional effect will be reduced notably.

SECTION 8: Limitation and monitoring of the exposition/personal protective equipment

8.1. Control parameters

sodium chloride (7647-14-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	295.52 mg/kg bodyweight/day
Acute - systemic effects, inhalation	2068.62 mg/m ³
Long-term - systemic effects, dermal	295.52 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2068.62 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	126.65 mg/kg bodyweight
Acute - systemic effects, inhalation	443.28 mg/m ³
Acute - systemic effects, oral	126.65 mg/kg bodyweight
Long-term - systemic effects, oral	126.65 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	443.28 mg/m ³
Long-term - systemic effects, dermal	126.65 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	5 mg/l
PNEC (Soil)	
PNEC (Soil)	4.86 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	500 mg/l

8.2. Limitation and monitoring of the exposition

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

In case of repeated or prolonged contact wear gloves. For undissolved solid substances following materials may be suitable: Nitrile rubber, Butyl rubber, Fluoroelastomer (FKM), Chloroprene rubber. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

In case of dust production: protective goggles

Skin and body protection:

Wear suitable protective clothing

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Respiratory protection:

Not necessary with sufficient ventilation. If dust are formed : Dust Respirator. EN 143

Environmental exposure controls:

Avoid release to the environment.

Other information:

Wash contaminated clothes. Avoid contact with skin.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Crystals
Molecular mass	58.44 g/mol
Colour	colourless
Odour	odourless
Odour threshold	No data available
pH	6 - 9 (50 g/L; 20 °C; DIN 38404-5)
Relative evaporation rate (butylacetate=1)	No data available
Melting point	801 °C
Freezing point	Not applicable
Boiling point	1461 °C
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable
Vapour pressure	0 mbar (20°C)
Relative vapour density at 20 °C	No data available
Relative density	Not applicable
Density	2.16 g/cm ³ (25 °C)
Solubility	Water: 359 g/l (20°C) Easily soluble
Log Pow	No data available
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	Not applicable

9.2. Other information

Bulk density	rock salt: 1050-1250 kg/m ³ evaporated salt: 1100-1300 Kg/m ³
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SECTION 10: Stability and Reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Alkali metals.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids, alkali metals, oxidising substances.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)

sodium chloride (7647-14-5)	
LD50 oral rat	3550 mg/kg
LD50 dermal rat	> 10000 mg/kg

Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met) pH: 6 - 9 (50 g/L; 20 °C; DIN 38404-5)
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met) pH: 6 - 9 (50 g/L; 20 °C; DIN 38404-5)
Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	Not classified (Not relevant)

SECTION 12: Environmental information

12.1. Toxicity

Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	Not classified (Based on available data, the classification criteria are not met)
Chronic aquatic toxicity	Not classified (Based on available data, the classification criteria are not met)

sodium chloride (7647-14-5)	
LC50 fish 1	5840 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	4136 mg/l (static; 48 h; Daphnia magna; OECD Guideline 202)
LOEC (chronic)	441 mg/l (21 d; Daphnia pulex; (OECD-Methode 211))
NOEC chronic fish	4000 mg/l (7 d; Pimephales promelas; EPA 600/4-89- 001)
NOEC chronic crustacea	314 mg/l (21 d; Daphnia pulex; (OECD-Methode 211))

12.2. Persistence and degradability

sodium chloride (7647-14-5)	
Persistence and degradability	Not applicable for inorganic substances.

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12.3. Bioaccumulative potential

sodium chloride (7647-14-5)	
Bioaccumulative potential	Not applicable.

12.4. Mobility in soil

sodium chloride (7647-14-5)	
Ecology - soil	Not applicable.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects No additional information available.

SECTION 13: Information on disposal

13.1. Waste treatment methods

Waste treatment methods Disposal must be done according to official regulations. European waste catalogue. Do not dispose of with domestic waste. Do not discharge into drains or the environment.

Product/Packaging disposal recommendations Do not re-use empty containers without proper cleaning or reconditioning.

European List of Waste (LoW) code 06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

SECTION 14: Transport Information

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

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.1 UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport
Not applicable
- Transport by sea
Not applicable
- Air transport
Not applicable
- Inland waterway transport
Not applicable
- Rail transport
Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory Information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

sodium chloride is not on the REACH Candidate List

sodium chloride is not on the REACH Annex XIV List

Other information, restriction and prohibition regulations

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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