

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 10.11.2014

Version: 2. 0

Revision: 24.06.2014

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

1.1 Product identifier

- Trade name: **esco PDV Salt**
(various granulations, salt-tablets, compacted salt)
esco Rock salt (various granulations)
esco sea salt (various granulations)
esco NaCl-brine (26% and 22,5%)*
Not valid for esco pickling salt, hide-curing-salt and de-icing-salt.
*** Data refer to the dissolved substance**

CAS Number:

7647-14-5

EC number:

231-598-3

1.2 Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.**Application of the substance / the preparation:**

Food
Animal feed
Watersoftening
various technical applications

1.3 Details of the supplier of the safety data sheet**Supplier/Manufacturer:**

esco - european salt company GmbH & Co. KG
Landschaftstr. 1
30159 Hannover
Tel. +49 511 85030-0
Fax. +49 511 85030-131
www.esco-salt.com
info@esco-salt.com

Email competent person: sds@kft.de**Information department:** See supplier/manufacturer**1.4 Emergency telephone number:**

National Poison Information Service (NPIS)
24 hour national number professionals only
0844 892 0111

National Health Service (NHS)
24 hour national number consumer
England and Scotland: 111
Wales: 0845 46 47
Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable

Information concerning particular hazards for human and environment:

Based on information available to us, the substance/the mixture is not a hazardous substance as defined by the Chemicals Act (ChemG), the Hazardous substances Ordinance, Regulation (EC) No. 1272/2008 and Directive 1999/45/EC in their latest versions. No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description:**
7647-14-5 sodium chloride
- **Identification number(s):**
- **EC number:** 231-598-3

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** If symptoms persist or in case of doubt, seek medical advice.
- **After inhalation:** Supply fresh air; consult a doctor in case of pain.
- **After skin contact:** Wash with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist, consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
After the uptake of large quantities:
Nausea
Vomiting
- **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
The product is not combustible and does not support any combustion.
Use fire fighting measures suiting the environment.
- **For safety reasons unsuitable extinguishing agents:** No data available
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Hydrogen chloride (HCl)

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- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear a fully protective suit.
- **Additional information:**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid formation of dust.
Ensure adequate ventilation.
Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Ensure adequate ventilation.
Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.
Make sure to recycle or dispose of in suitable receptacles.
Rinse residues with water.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Avoid inhalation of dust.
Prevent formation of dust.
Any deposit of dust which cannot be avoided must be regularly removed.
- **Information about protection against explosions and fires:**
The product is not flammable.
Observe the general rules of industrial fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store at ambient temperatures and under dry conditions.
- **Information about storage in one common storage facility:**
Store away from acids.
Store away from oxidising agents.
- **Further information about storage conditions:** Protect from humidity and water.
- **Storage time:** If stored correctly product can be used almost indefinitely.
- **Storage class:** 13 Non combustible solid

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· **7.3 Specific end use(s)** No further relevant information available

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required
- **CAS No. Designation of material % Type Value Unit**
- **Additional Occupational Exposure Limit Values for possible hazards during processing:**
Observe general threshold limit for dust.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Avoid close or long term contact with skin.
Vacuum contaminated clothing. Do not blow or brush off contamination.
- **Breathing equipment:**
Not necessary if room is well-ventilated
At formation of dust:
Dust protection mask
- **Protection of hands:**
Upon longer contact:
The glove material has to be impermeable and resistant to the product/substance/preparation.
Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture.
Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:**
For undissolved solid substances following materials may be suitable:
nitrile rubber (NBR), butyl rubber (BR), fluorocarbon rubber (FKM) and polychloroprene rubber (CR)
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material:**
-
The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** At formation of dust or insufficient ventilation: Tightly sealed goggles
- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information:**
- **Appearance:**

Form:	Crystalline
Colour:	Colourless
- **Odour:** Odourless
- **Odour threshold:** Not applicable

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· pH-value (50 g/l) at 20 °C:	6-9 (DIN 38404-5)
· Change in condition:	
Melting point/Melting range:	801 °C
Boiling point/Boiling range:	1461 °C
· Flash point:	Not applicable
· Flammability (solid, gaseous):	Product is not flammable.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not applicable
Upper:	Not applicable
· Vapour pressure at 20 °C:	0 mbar
· Density at 25 °C:	2.1615 g/cm ³
· Bulk density:	~ 1200 kg/m ³ rock salt: 1050-1250 kg/m ³ evaporated salt: 1100-1300 Kg/m ³
· Solubility in / Miscibility with	
Water at 20 °C:	359 g/l
· Viscosity:	
dynamic:	Not applicable
kinematic:	Not applicable
· 9.2 Other information	No further relevant information available

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions**
 Reacts with acids releasing hydrogen chloride.
 Upon contact with oxidants chlorine gas forms.
 Reacts with alkaline metals.
- **10.4 Conditions to avoid** No further relevant information available
- **10.5 Incompatible materials:**
 Acids
 Oxidants
 Alkali metals
- **10.6 Hazardous decomposition products:**
 No hazardous decomposition products if instructions for storage and handling are followed

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**
- 7647-14-5 sodium chloride**
- Oral LD₅₀ 3000 mg/kg (rat)
- Dermal LD₅₀ > 10000 mg/kg (rabbit)
- **Primary irritant effect:**
 - **on the skin:** May cause irritation to the skin.
 - **on the eye:** Light irritation possible
 - **On respiratory tract:** No data available
 - **Sensitisation:** No sensitising effects known
 - **Other information (about experimental toxicology):**
- Ames-test: negative
- Mutagenicity (mammalian cell test): micronucleus negative
- **Carcinogenic, mutagenic effects and adverse effects on reproduction:**
- Presently available data show no carcinogenic, mutagenic or teratogenic effects.
- **Subacute to chronic toxicity:**
 - **STOT-single exposure** No classification
 - **STOT-repeated exposure:** No classification
 - **Aspiration hazard** Not relevant
 - **Additional toxicological information:**
- When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- The substance is not subject to classification according to the latest version of the EU lists.

SECTION 12: Ecological information

- **12.1 Toxicity**
 - **Aquatic toxicity:**
- 7647-14-5 sodium chloride**
- EC₁₀ 577 mg/l (Bacteriae)
- EC₅₀/24h 6175 mg/l (Daphnia magna)
- EC₅₀/48h 4135 mg/l (Daphnia magna)
- LC₅₀/96h 9675 mg/l (Lepomis macrochirus)
- **12.2 Persistence and degradability** No further relevant information available
 - **Other information:**
- Inorganic substance which cannot be removed from water by biological treatments
- Dissociates into:
- Sodium and chloride ions
- **12.3 Bioaccumulative potential** No further relevant information available
 - **12.4 Mobility in soil** No further relevant information available

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- **Ecotoxicological effects:**
- **Other information:**
If appropriately low concentrations are discharged into biological treatment plants, no inhibition of the degradation activity of the activated sludge is to be expected.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous to water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water is possible if large quantities leak into the ground or into water course.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Other adverse effects** No further relevant information available

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
After prior treatment product has to be landfilled adhering to the regulations pertaining to the disposal of particularly hazardous waste.
Disposal according to instructions of local authorities
- **European waste catalogue:**
06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03 00 wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
- **Uncleaned packagings:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
Non contaminated packagings can be used for recycling.

SECTION 14: Transport information

- | | |
|---|------|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class | Void |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | Void |

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· 14.5 Environmental hazards:	Not applicable
· 14.6 Special precautions for user	Not applicable
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
· UN "Model Regulation":	-

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:**
Ident number.: 270
Water hazard class 1 (Assessment by list): slightly hazardous for water
- **Further information:**
For this substance/mixture no safety data sheet needs to be generated according to Article 31(1) of Regulation (EC) No 1907/2006. The here presented safety data sheet may therefore not fulfil all requirements of Annex II of this regulation.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for amendments:** Harmonization of version numbers
- **Replaces version dated:** 24.6.2014
- **Department issuing MSDS:**
KFT Chemieservice GmbH
Im Leuschnerpark. 3 64347 Griesheim
Postfach 1451 64345 Griesheim
Germany
- **Phone:** +49 6155 86829-0 **Fax:** +49 6155 86829-25
Safety Data Sheet Service: +49 6155 86829-22
- **Contact:** Dr. Sonja Fischer
- **Abbreviations and acronyms:**
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

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LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Sources:

ESIS (European existing Substances Information System)

Information provided by the manufacturer

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