

SAFETY DATA SHEET

**Salt**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

**1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

Product Name	Salt
Trade Name	Granular; Pure Dried Vacuum, Tablets and Undried Vacuum; hydrossoft™ Granular and hydrossoft™ Tablets; Microfine.
Alternative names	Sodium Chloride, Common Salt, Evaporated Salt
Chemical Name	Sodium chloride; NaCl
CAS No.	7647-14-5
EC No.	231-598-3
REACH Registration No.	Listed in REACH 1907/2006 Annexe V Section 7, exempted from registration.

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

Identified Use(s)	Chemical manufacture and processing. Water treatment. Food and Feed industry. Laboratory chemical. highways de-icing.
Uses Advised Against	None.

**1.3 Details of the supplier of the safety data sheet**

Company Identification	INEOS Enterprises Group Ltd
Address of Supplier	Salt Business Enterprise House South Parade PO Box 9 Runcorn, Cheshire WA7 4JE
Telephone:	☎ +44 (0)845 6030444
E-mail	msds.enterprises@ineos.com

**1.4 Emergency telephone number**

Emergency Phone No.	+44(0)1235 239 670 (EU regional number)
Contact	CareChem

National Poisons Information Service (Birmingham Centre)	+00 448 706 006 266 NHS Direct - 0845 4647 or 111
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**2. SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP)	Not classified as dangerous for supply/use.
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**2.2 Label elements**

Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Salt
Hazard Pictogram(s)	None.
Signal Word(s)	None.

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Hazard Statement(s) None.

Precautionary Statement(s) None.

Additional label requirements None.

**2.3 Other hazards**

None.

**2.4 Additional Information**

None.

**3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Sodium chloride	7647-14-5	231-598-3	≥99.9	Not classified	None.

**3.2 Mixtures**

Not applicable.

**4. SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact Wash skin with soap and water.

Eye Contact Flush eyes with water for at least 15 minutes. If symptoms develop, obtain medical attention.

Ingestion Wash out mouth with water. Do not induce vomiting. Obtain immediate medical attention if ill effects occur.

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

Large doses may result in irritation of the gastrointestinal tract leading to nausea, vomiting and diarrhoea. Dehydration and congestion may occur in internal organs.

May cause physical abrasion in contact with skin and eyes. Dust may have irritant effect on eyes. High concentrations of dust may be irritant to the respiratory tract. Repeated exposure by inhalation may produce adverse effects on the lungs.

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

Unlikely to be required but if necessary treat symptomatically. Low acute toxicity under normal conditions of handling and use.

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#### 5. SECTION 5: FIREFIGHTING MEASURES

##### 5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None.

##### 5.2 Special hazards arising from the substance or mixture

Low fire hazard.

##### 5.3 Advice for firefighters

A self contained breathing apparatus and full protective clothing should be worn in fire conditions. Potential hazard from the combustion of packaging materials.

#### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust generation. Avoid breathing dust.

Wear suitable gloves and eye/face protection.

##### 6.2 Environmental precautions

Avoid release to the environment. Contain spillages. Transfer to a lidded container for disposal or recovery.

##### 6.3 Methods and material for containment and cleaning up

Sweep up solid substance. Transfer to a container for disposal or recovery. Wash the spillage area with water.

##### 6.4 Reference to other sections

See Also Section 8, 13.

##### 6.5 Additional Information

Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

#### 7. SECTION 7: HANDLING AND STORAGE

##### 7.1 Precautions for safe handling

Avoid prolonged skin contact. Avoid dust generation. Avoid inhalation of high concentrations of dusts. Provide adequate ventilation where operational procedures demand it. Keep away from strong acids and common metals. Static electricity can be generated by pneumatic conveying, therefore pipes should be bonded and earthed, especially where a spark could prove hazardous.

##### 7.2 Conditions for safe storage, including any incompatibilities

Store in dry place. Keep only in the original container in a cool, well ventilated place away from moisture.

Storage temperature

Ambient.

Storage life

Stable under normal conditions. See Section: 10.2

Incompatible materials

strong acids See Section: 10.3

##### 7.3 Specific end use(s)

Contact supplier for further information. See Also Section 1.2

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**8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

8.1.1 Occupational Exposure Limits Sodium chloride: No Occupational Exposure Limit assigned.

Occupational Exposure Limits						
SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Notes
Inhalable Dust	Not applicable		10			
Respirable Dust	Not applicable		4			

Region Source  
United Kingdom UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

8.1.2 PNECs and DNELs

Sodium chloride			
DNEL / DMEL	Oral	Inhalation	Dermal
Industry - Long Term - Local effects			
Industry - Long Term - Systemic effects		2069 mg/m <sup>3</sup>	296 mg/kg bw/day
Industry - Short term - Local effects			
Industry - Short term - Systemic effects		2069 mg/m <sup>3</sup>	296 mg/kg bw/day
Consumer - Long Term - Local effects			
Consumer - Long Term - Systemic effects	127 mg/kg bw/day	443 mg/m <sup>3</sup>	127 mg/kg bw/day
Consumer - Short term - Local effects			
Consumer - Short term - Systemic effects	127 mg/kg bw/day	443 mg/m <sup>3</sup>	127 mg/kg bw/day

Sodium chloride	
Environment	PNEC
Aquatic Compartment (including sediment)	Fresh water: 5 mg/l, Marine water: Not applicable. Intermittent releases: 19 mg/l, Sewage treatment plant: 500 mg/l Fresh water Sediment ( Dry ): Not applicable. Marine water Sediment ( Dry ): Not applicable.
Terrestrial Compartment	Soil ( Dry ) 4.86 mg/kg
Atmospheric Compartment	Not applicable.

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**8.2 Exposure controls**

8.2.1. Appropriate engineering controls    Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit.

8.2.2. Personal protection equipment



Eye Protection

Wear suitable eye/face protection. If dust is likely to be generated: Goggles giving complete protection to eyes.



Skin protection

Wear protective gloves.  
The following materials are suitable for protective gloves (permeation time  $\geq$  8 hours): Nitrile rubber (0.35mm), PVC (0.5mm), Butyl rubber (0.5mm), Fluorocarbon rubber (0.4 mm), Polychloroprene CR (0.5 mm), Natural rubber (0.5mm).  
Check with protective equipment manufacturer's data.



Respiratory protection

Normally no personal respiratory protection is necessary. An approved dust mask should be worn if dust is generated during handling. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.



Thermal hazards

None known.

8.2.3. Environmental Exposure Controls    Do not release large quantities into the surface water or into drains.

**9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance	Crystalline Solid
	Colour : Colourless
Odour	Odourless.
Odour threshold	Not established.
pH	Not applicable.
Melting point/freezing point	801 °C
Initial boiling point and boiling range	1461 °C
Flash Point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	1.33hPa @ 865 °C
Vapour density	No data available.
Density (g/ml)	2.16
Relative density	2.17

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Solubility(ies)	Solubility (Water) : freely soluble 317 g/l @ 20 °C Solubility (Other) : Insoluble
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	No data available.
Viscosity	Not applicable.
Explosive properties	Not explosive
Oxidising properties	Not oxidising.
<b>9.2 Other information</b>	
Molecular weight	58.44
Bulk Density (g/ml)	1.2 to 1.5 approximately (except tablets)
Particle Size	Granular Grade(s): 1 – 3 mm (typically) Pure Dried Vacuum grade: free running cubic crystals mostly 0.2 - 0.6mm in size. Tablets: 24x24x13 mm

## 10. SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

None anticipated.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Reaction with concentrated acid will produce hydrogen chloride.

### 10.4 Conditions to avoid

Avoid dust generation. Avoid accumulation of dust.

Under wet conditions, will corrode many common metals, particularly iron, aluminium and zinc.

### 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

None.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity - Ingestion

Not classified.

LD50 (rat): 3550 mg/kg bw

May cause vomiting and diarrhoea. The swallowing of small amounts is unlikely to cause any adverse effects.

Acute toxicity - Skin Contact

Not classified.

LD50 (rabbit): >10,000 mg/kg bw

Acute toxicity - Inhalation

Not classified.

LD50 (1 hour(s)) (rat): >42 mg/l

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Skin corrosion/irritation	Not classified. May cause physical abrasion in contact with skin. Repeated or prolonged contact may result in dryness leading to mild irritation.
Serious eye damage/irritation	Not classified. May cause physical abrasion in contact with eyes. Dust may cause irritation.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified. High concentrations of dust may be irritant to the respiratory tract.
STOT - repeated exposure	Not classified. Repeated exposure by inhalation may produce adverse effects on the lungs. Repeated ingestion of excessive amounts may cause disturbance of body electrolyte and fluid balance.
Aspiration hazard	Not classified.

#### 11.2 Other information

The product is biologically inert.  
Large doses may result in irritation of the gastrointestinal tract leading to nausea, vomiting and diarrhoea. Dehydration and congestion may occur in internal organs.

## 12. SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

	Low toxicity to aquatic organisms. Not classified.
Toxicity - Aquatic invertebrates	Low toxicity to invertebrates. Not classified. LC50 (Daphnia magna) (48 hour): 874 mg/l NOEC (Daphnia magna) (7 day): 354 mg/l
Toxicity - Fish	Low toxicity to fish. Not classified. LC50 Bluegill Sunfish (L. macrochirus) (96 hour): 5840 mg/l NOEC (33 days) (Fathead minnow (Pimephales promelas)): 252 mg/l
Toxicity - Algae	Not classified. EC50 (Nitzschia linearis) (120 hour(s)): 2430 mg/l EC10 (Microorganisms): 5000 mg/l
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified. Soil micro-organisms EC50 (Short term): 3296 mg/kg Soil (Dry) EC10 (Long Term): 3507 mg/kg Soil (Dry)

### 12.2 Persistence and Degradation

The product shows no evidence for biodegradability in water.  
The product shows no evidence for biodegradability in soil.

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#### 12.3 Bioaccumulative potential

The product has no potential for bioaccumulation.

#### 12.4 Mobility in soil

The product is predicted to have high mobility in soil.

#### 12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

#### 12.6 Other adverse effects

Not known.

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Recover and reclaim or recycle, if practicable. Do not discharge into drains or the environment, dispose to an authorised waste collection point.

#### 13.2 Additional Information

No special precautions are required for this product.

### 14. SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

#### 14.1 UN number

Not applicable

#### 14.2 UN proper shipping name

Not applicable

#### 14.3 Transport hazard class(es)

Not applicable

#### 14.4 Packing group

Not applicable

#### 14.5 Environmental hazards

Not classified as a Marine Pollutant.

#### 14.6 Special precautions for user

Not known

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

Not known

### 15. SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

REACH: ANNEX XIV list of substances subject to authorisation Not listed



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REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not listed

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer Not listed

SEVESO SUBSTANCE (Directive 2012/18/EU) No.

**National regulations**

Germany Wassergefährdungsklasse (WGK) Kenn-Numm : 270 WGK class 1 (official).

**15.2 Chemical Safety Assessment**

A REACH chemical safety assessment has not been carried out.

**15.3 Inventory Status**

Listed in: Australia (AICS), Canada (DSL/NDL), China (IECSC), European Union (EINECS/ELINCS), Japan (ENCS), New Zealand Inventory (NZIoC), Philippines (PICCS), South Korea (KECI), Switzerland, Taiwan (NECI), Thailand, Turkey, United States (TSCA).

**16. SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1 - 16

**LEGEND**

Hazard Pictogram(s) None.

Precautionary Statement(s) None.

Acronyms  
 CAS : Chemical Abstracts Service  
 CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
 DNEL : Derived No Effect Level  
 EC : European Community  
 EINECS : European Inventory of Existing Commercial Chemical Substances  
 LTEL : Long term exposure limit  
 PBT : Persistent, Bioaccumulative and Toxic  
 PNEC : Predicted No Effect Concentration  
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

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STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative

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