

## SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020



### VACUUM EVAPORATED SALT, FOOD GRADE, SODIUM CHLORIDE - FEED MATERIAL

Printing date: 09.02.2012

Revision: 23.04.2021

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

##### 1.1. Product identifier

Product name:

**VACUUM EVAPORATED SALT, FOOD GRADE, SODIUM CHLORIDE - FEED MATERIAL**

Index: ---

CAS: 7647-14-5

EC: 231-598-3

Reg. number: not subject to registration - minerals (Annex V of the REACH Regulation).

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

Relevant identified uses: Product intended for food industry. For animal feed composition.

Uses advised against: undefined

##### 1.3. Details of the supplier of the safety data sheet

Inowrocławskie Kopalnie Soli SOLINO Spółka Akcyjna

ul. Świętego Ducha 26 a

88-100 Inowrocław

tel.: +48 52 354 57 15

fax: +48 52 354 57 08

E- mail: [sylwia.rzetelna@solino.pl](mailto:sylwia.rzetelna@solino.pl)

##### 1.4. Emergency telephone number

+48 48 52 354 57 15 (09.00 – 16.00)

European emergency number: 112

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

##### 2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008

**Signal word:** none

**Pictograms:** none

**Hazard statements**

none

**Precautionary statements**

none

**Additional information:**

none

##### 2.3. Other hazards

This substance does not meet the PBT or vPvB criteria according to Annex XIII.

#### SECTION 3: Composition/information on ingredients

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#### 3.1 Substances

Name of substance	Identifier	% weight
Sodium chloride	Index --- CAS 7647-14-5 EINECS 231-598-3	min. 99
<b>Pollutants:</b>		
Water max.	max. 0,5 %	
Anti-caking agent	max. 0,002 %	
Insoluble substances	max. 0,05	
<b>Chemical formula:</b>	NaCl	
<b>Structural formula:</b>	Na <sup>+</sup> Cl <sup>-</sup>	

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### Inhalation

Remove person to fresh air and keep comfortable for breathing.  
Ensure warmth and calm.  
Provide medical assistance if necessary.

###### Ingestion

Do not induce vomiting.  
Rinse mouth.  
If unconscious – do not give the person anything to swallow.  
Transport the injured person to a hospital if necessary.

###### Eye contact

Remove contact lenses.  
Rinse contaminated eyes with lukewarm water for 10-15 minutes with the eyelids rolled back. Make the upper eyelid overlap the lower one from time to time.  
Provide medical assistance if necessary.

###### Skin contact

Remove contaminated clothing immediately.  
Clean contaminated skin, wash with plenty of water, then wash with water and mild soap.  
If skin irritation persists, consult a doctor.

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

High concentrations of particulate matter substance may cause mechanical irritation to skin, eyes and respiratory tract. Ingestion of large amounts may cause nausea and vomiting.

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

Symptomatic treatment.  
First aid supplies should be available on the workplace premises.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### Suitable extinguishing media

Fire-fighting foam, carbon dioxide CO<sub>2</sub>, fire-extinguisher powders, dispersed water

###### Unsuitable extinguishing media

Do not direct dense jets of water onto the surface of a burning product.

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

###### Combustion products

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In case of fire, the following can be released: Hydrogen chloride gas, Sodium oxides.

#### **Explosive mixture**

Not applicable

#### **5.3. Advice for firefighters**

Use standard firefighting methods for extinguishing chemical fires.

Use water to cool containers exposed to high temperatures, and if possible, remove them from the area affected.

Use water spray jets to disperse vapours.

#### **Fire-fighter protective equipment**

Full personal protective equipment.

Self-contained breathing equipment.

### SECTION 6: Accidental release measures

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

Provide adequate ventilation. Avoid contact with eyes and skin. Wear appropriate protective equipment. Remove all sources of ignition. Keep all persons not equipped with personal protection equipment away. In case of a discharge of a significant volume of the mixture, warn its users and order all bystanders to leave the contaminated area.

#### **6.2. Environmental precautions**

Prevent environmental contamination.

Protect drains.

In case of serious contamination of soil, watercourse or sewage system, notify the appropriate authorities.

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

Secure any damaged packaging.

Ventilate the area affected and avoid inhaling vapours.

For larger amounts of the substance, collect it with industrial vacuum cleaners. Keep in suitable, closed containers for disposal.

Avoid rising dust.

Rinse the contaminated surface with plenty of water.

#### **6.4. Reference to other sections**

See Section 8 for information on personal protection

See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### **Recommendations for handling the mixture**

Provide adequate ventilation.

Avoid contact with eyes and skin.

Avoid generating dust.

Avoid inhaling dust.

##### **General industrial health and safety regulations**

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Replace contaminated clothing.

Wash contaminated clothing before reusing.

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

Storage rooms must be ventilated.

Keep container tightly closed.

Keep only in the original container.

Keep away from sunlight, as well as heat and ignition sources.

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Do not store together with foodstuffs and animal feed.  
Protect against moisture.  
Read the material safety data sheet.

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

No data available

### SECTION 8: Physical and chemical properties

#### 8.1. Control parameters

##### Exposure limits :

Other non-toxic industrial dust - total dust 10 mg/m<sup>3</sup> TWA

#### 8.2. Exposure controls

##### Appropriate engineering controls

Workstations and storage rooms must be well ventilated to keep the dust concentrations in the air below their limit values.

##### Individual protection measures



##### Eye or face protection

Use safety goggles compliant with the EN 166 standard.

Eye wash bottle with clean water or eye washers must be provided near the work area.

##### Skin protection

##### Hand protection

In case of danger, use chemical-resistant protective gloves compliant with the EN 374 standard.

Select glove material based on breakthrough time, rate of penetration and degradation.

It is recommended to change gloves regularly and immediately replace them if they have any signs of wear, damage (tears, holes) or their appearance changes (colour, flexibility, shape).

Apply protective cream on unprotected body parts.

##### Body Protection

The type of protective equipment must be selected based on the quantity and concentration of hazardous substances in the given work environment.

##### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate standards CEN (EU).

##### Environmental exposure controls

Do not empty into drains or watercourses.

##### General health and safety guidelines

Follow good personal hygiene practices.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Physical state:</b>	Solid, fine crystalline
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Melting point/freezing point:</b>	ok. 800.7 - 801°C (Sodium chloride)
<b>Boiling point or initial boiling point and boiling range:</b>	ok. 1413 - 1465°C (Sodium chloride)

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<b>Flammability:</b>	Non-flammable substance
<b>Lower and upper explosion limit:</b>	No data available
<b>Flash point:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	ok. 801°C
<b>pH:</b>	6,0 - 8,0 (1 % solution /20°C)
<b>Kinematic viscosity:</b>	No data available
<b>Solubility:</b>	in water: 357 g/l (0 °C), 360 g/l (20 °C), 391 g/l (100 °C) Soluble in glycerol, ethylene glycol, and formic acid, less in ethanol, methanol - 14.9 g / l, in liquid ammonia - 21.5 g / l /
<b>Partition coefficient n-octanol/water (log value):</b>	Not applicable
<b>Vapour pressure:</b>	Ok. 1.3 mm Hg w 865°C (Sodium chloride)
<b>Density and/or relative density:</b>	2.165 - 2.17 g/cm <sup>3</sup> (Sodium chloride)
<b>Relative vapour density:</b>	No data available
<b>Particle characteristics:</b>	No data available

#### 9.2. Other information

##### Information with regard to physical hazard classes

No data available

##### Other safety characteristics

In water, it is corrosive to most metals

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The substance is not chemically reactive if stored and used under proper conditions.

#### 10.2. Chemical stability

Under normal storage and use of the substance is chemically stable.

#### 10.3. Possibility of hazardous reactions

Do not occur

#### 10.4. Conditions to avoid

Avoid sources of ignition, heat, electrical sparks. High temperature (under fire conditions and high temperature (> 801°C) may occur Hazardous Decomposition Products: Chlorine, hydrogen chloride, sodium oxide). Moisture (substance may become lumpy).

#### 10.5. Incompatible materials

Avoid contact with Bromine trifluoride, lithium.

#### 10.6. Hazardous decomposition products

No data available

### SECTION 11: Toxicological information

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

##### Acute toxicity:

Based on available data, the classification criteria are not met.

Sodium chloride (CAS No. 7647-14-5)

LD<sub>50</sub> (rat): 3000 mg / kg

LD<sub>50</sub> (oral, mouse): 4000 mg / kg

LDLo (oral, rabbit): 8 g / kg

LDLo (subcutaneous guinea pig): 2160 mg / kg

##### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

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#### **Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

#### **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

#### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

#### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

#### **STOT-single exposure**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Routes of exposure:**

Inhalation, ingestion, skin contact, eye contact.

#### **Local effects:**

##### Contact with skin:

Dust may cause slight irritation. It can be irritating to the damaged skin.

##### Eye contact:

Salt dust may cause slight redness and itching eyes.

Direct contact with eyes may cause mild irritation, redness and pain (for concentrations higher than the concentration of saline - 0.9% NaCl solution in water).

##### Inhalation:

Dust may cause slight irritation of the mucous membranes of the nose and throat, cough, jerky breath.

This may result in irritation and bronchopneumonia.

As a result of inhalation of redness of the face, nausea, shortness of breath and cough.

##### Ingestion:

Swallowing large amounts may cause a burning sensation in the throat with nausea,

Ingestion of large amounts can cause vomiting, diarrhea. In most organs is congestion and dehydration.

Hypertonic solutions may cause severe inflammatory reactions in the gastrointestinal tract.

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

No data

##### **Other information**

No data

### SECTION 12: Ecological information

#### **12.1. Toxicity**

##### **Acute toxicity:**

Based on available data, the classification criteria are not met.

##### Sodium Chloride ( CAS no 7647-14-5)

LC<sub>50</sub> - fish (*Carassius auratus*) 7341 mg/l (96h)

LC<sub>50</sub> - fish (*Lepomis macrochirus*) 9675 mg/l (96h)

LC<sub>50</sub> - fish (*Pimephales promelas*) 7650 mg/l (96h)

LC<sub>50</sub> - fish (*Salmo gairdneri*) 11000 mg/l (96h)

LC<sub>50</sub> - fish (*Gambusia affinis*) 17550 mg/l (96h)

LC<sub>50</sub> - fish (*Cyprinus carpio*) 21500 mg/l (1h)

EC<sub>50</sub> - invertebrates (*Daphnia magna*) 3412 mg/l (24h)

LC<sub>50</sub> - invertebrates (*Snails*) 6200 mg/l (96h)

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LC<sub>50</sub> - invertebrates (*Caddis flies*) 9000 mg/l (24h)  
 LC<sub>50</sub> - invertebrates (*Lymnea eggs*) 3412 mg/l (96h)  
 EC<sub>50</sub> – Algea (*Nitzschia sp.*) 2430 mg/l (5 days)

**12.2. Persistence and degradability**

Maximum concentrations of sodium ions released into water and soil - 800 mg / l , chloride - 1000 mg / l sulfate - 500 mg / l, a cyanide content - 0.1 mg, - potassium 80 mg / l Iron - 10 mg / l.

Hydrolysis:

Not applicable. Sodium chloride dissociates in water.

Biodegradation:

Studies of biodegradation in the water, simulation studies on ultimate degradation in surface waters, simulation studies in sediments and soils are not carried out if the substance is inorganic.

**12.3. Bioaccumulative potential**

Sodium chloride dissociates in water and both ions are components of the bodies of animals.

Octanol / water (Kow): N (sodium chloride is inorganic salt).

Bioconcentration factor (BCF): Not applicable (sodium chloride is inorganic salt).

**12.4. Mobility in soil**

In water, sodium chloride is dissociated into ions of sodium and chloride ions. Chloride does not adsorb on particulates. Sodium ions can be adsorbed to soil particles.

**12.5. Results of PBT and vPvB assessment**

The ingredients do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH

**12.6. Endocrine disrupting properties**

No data

**12.7. Other adverse effects**

No data

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Product:****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Reutilise if possible or contact a waste processors for recycling or safe disposal.

**Uncleaned packaging:**

The containers and packing materials contaminated with dangerous substances or preparations, have the same treatment as products.

**Recommendation:**

Disposal must be made according to official regulations.

**Waste code package:**

15 01 02 plastic packaging.

**SECTION 14: Transport information****14.1. UN number or ID number**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

Label no.

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

No

**14.6. Special precautions for user**

Not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

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#### SECTION 15: Regulatory information

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

- Regulation (EC) No 1272/2008 (CLP) of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (REACH).
- REGULATION (EC) No 1907/2006 OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

##### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

#### SECTION 16: Other information

##### Abbreviations and Acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

PP: Severe Marine Pollutant

GHS: Globally Harmonized 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

##### Note to readers

The product described in the safety data sheet should be stored and used in accordance with good industrial practices and in compliance with all applicable legal regulations.

The information contained in the safety data sheet is based on the current state of knowledge and is intended to describe the product in terms of health, safety and environmental regulations. It should not be considered a guarantee of any specific product properties.

We cannot make any representations or warranties regarding the accuracy or completeness of any information provided or the quality or specifications of any products, substances or mixtures discussed herein.

The user is responsible for creating conditions for the safe use of the product and for the consequences of its misuse.

##### Safety data sheet

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