

## MATERIAL SAFETY DATA

### VACUUM BREWED SALT

Release date 14.06.2008

Review: 20.01.2021

Version EN: 8.0



*This MSDA is accordant to Regulation EC 1907/2006 dated 18.12.2006 – REACH and 2020/878 dated 18.06.2010.*

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

**1.1. Product identifier**  
Evaporated salt, vacuum  
Sodium chloride  
CAS: 7647-14-5  
EC No.: 231-598-3

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Identified uses: In the food industry Uses  
advised against: not specified

**1.3. Data of the supplier of the MSDS**  
**Distributor:** TOMCHEM Sp. z o.o.  
95-050 Konstantynów Łódzki  
ul. Niesięcin 5A  
tel. 42 683-11-83  
tel./fax.: 42-636-43-18

E-mail address of the person responsible for the material safety data sheet: [info@spin-doradztwo.pl](mailto:info@spin-doradztwo.pl).

**1.4. Emergency phone number** 112 (general emergency phone), 998 (fire department), 999 (medical emergency);

#### SECTION 2: Identification of hazards

**2.1. Classification of the substance or mixture acc. to Regulation 1272/2008:**  
Substance not classified as hazardous

**Hazard for human health**

No

**Hazards for the environment**

No

**Physical and chemical hazards**

No

**2.2. Label elements**

**Pictographs:**

No

**Warnings:**

No

**Hazard statement:**

No

**Precautionary phrases:**

No

**2.3. Other hazards**

Appendix XIII to the Regulation REACH - Criteria of identification of persistent, bioaccumulative and toxic substances (PBT) and very persistent and very bioaccumulative substances (vPvB) - not applicable

Substances with endocrine disrupting properties (according to the criteria of Commission Delegated Regulation (EU) 2017/2100, Commission Regulation (EU) 2018/605) - not applicable

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

##### **3.1. Substance**

Sodium chloride

CAS 7647-14-5

EC 231-598-3

Index no: -

REACH no. 01-2119485491-33-0000

##### **3.2. Mixtures**

Not applicable.

#### **SECTION 4: First aid measures**

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

###### **In case of skin contact:**

Wash soiled skin with soap and water, rinse thoroughly with water. Contact a doctor if irritation occurs.

###### **Contact with eyes:**

Flush eyes for several minutes (approx. 15 min.) with plenty of water, keep the eyelids wide open. Avoid a strong stream because of a hazard of corneal damage; contact a doctor if any alarming symptoms occur.

###### **If inhaled:**

In case of dizziness or nausea take the affected person out to the fresh air.

###### **If swallowed:**

Give a large amount of water to drink. Flush mouth with water.

##### **4.2. The most significant acute and delayed symptoms and effects of the exposure**

Skin contact: may cause mild irritation in case of frequent direct contact. Eye contact: possible mechanical irritation in case of a direct contact.

Respiratory system: inhalation of concentrated dust can cause irritation of the mucous membranes of the nose, throat and downstream respiratory system.

Gastrointestinal tract: ingestion of large amounts can cause symptoms of food poisoning, abdominal pain, nausea, vomiting.

##### **4.3. Recommendations regarding immediate doctor's aid and detailed procedure of treatment of a victim.**

Decision on how to proceed is made by a doctor after assessment of the condition of the affected person.

#### **SECTION 5: Firefighting**

##### **5.1. Extinguishing media**

**Suitable extinguishing media:** dry extinguishing powders, carbon dioxide (snow extinguisher), sand or earth. Apply extinguishing methods adjusted to adjacent area.

**Inappropriate extinguishing media:** Heavy water stream.

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

The product is not non-flammable. When exposed to high temperatures (under fire conditions), chlorine oxides may be released. Corrosive effect on metals.

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

Containers in a fire area must be cooled down with a water spray. If this is possible remove the containers from the hazard zone. In case of fire in an enclosed area use protective clothing and compressed air breathing apparatus. Do not enable penetration of the ground waters and the sewage system.

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#### SECTION 6: Accidental release measures

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

*For non-emergency personnel:* notify the relevant services of the accident. Remove everyone, who is not involved into the rescue operation, from the emergency liquidation area.

*For persons providing aid.* Assure required ventilation, apply the PPE. Prevent dust formation. Do not inhale product dust.

##### 6.2. Environment protection measures

Prevent dissipation and transfer of large quantities into sewage systems and water reservoirs.

**6.3. Methods and materials for preventing the spread of contamination and for disposal** Prevent the spread of contamination and dispose waste by mechanical collection into properly labeled containers for disposal in accordance with applicable regulations.

##### 6.4. References to other sections

Waste handling - see section 13 of the sheet.

Personal protective equipment - section 8 of the sheet.

#### SECTION 7: Handling and storage

##### 7.1. Precautions regarding safe handling

Provide adequate ventilation. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid spillage and dust formation. Work in accordance with safety and hygiene rules: do not eat or drink, do not smoke in the workplace, wash hands after use, remove contaminated clothing and protective equipment before entering eating areas.

**7.2. Conditions for safe storage, including information on any incompatibilities** Store in a cool, dry, well-ventilated area in a properly labeled closed original container. Avoid direct sunlights and sources of heat. Avoid hot areas and open flames.

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

Uses according to section 1.2 - no additional recommendations

#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

Exposure standards for occupational hazards in accordance with Regulation of the Minister of Family, Labor and Social Policy dated 12 June 2018 on the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws item 1286 as amended).

Name and CAS number of the chemical (substance)	Maximum permissible concentration (in mg/m <sup>3</sup> ) as a function of exposure time during the work shift			Number of fibers (in cm <sup>3</sup> )	Remarks: Notation of the substance: "skin"
	NDS	NDSch	NDSP		
Dusts not classified on toxicity [-] - inhalable fraction	10	-	-	-	-

##### 8.2. Exposure controls

**Appropriate technical control measures:** it is necessary to use general ventilation in the room.

**Personal protective equipment - individual protective equipment:**

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#### **Eyes / face protection:**

Use safety goggles or a mask to protect the face.

#### **Skin protection:**

Hands protection:

Use chemical-resistant protective gloves made of natural rubber or PVA conforming to EN-PN 374:2005.

#### **Material of the gloves:**

Selection of adjusted gloves depends on the material but also on a brand and quality assured by a manufacturer. Resistance of the material the gloves are made from may be determined after tests. Accurate gloves destroying time must be determined by a manufacturer.

Other:

Wear protective clothing - wash it regularly.

#### **Airways protection:**

Avoid inhalation of product dust. Use dust masks under conditions of inadequate ventilation or exposure to concentrated dusts of the product and under conditions exceeding the highest permissible concentration for product components.

#### **Thermal hazards:**

Not applicable.

#### **Environment exposure control**

Do not enable spreading in the environment and penetration of the sewage and water courses.

## **SECTION 9: Physical and chemical properties**

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

a)	State:	Solid (fine crystalline)
b)	Color	White
c)	Smell	Fragrance-free
d)	Melting / solidification temperature (not applicable to gases)	801°C
e)	Boiling point or initial boiling point and boiling range	1461°C
f)	Flammability of materials (applies to gases, liquids, solids)	The substance is not flammable
g)	Lower and upper explosive limits (not applicable to solids)	Not applicable
h)	Flash point (not applicable to gases, aerosols and solids)	Not applicable
i)	Self-ignition temperature (applies to gases and liquids only)	Not applicable
j)	Decomposition temperature (applies only to self-reactive substances and mixtures, organic peroxides and other substances and mixtures that can decompose)	Not applicable

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k)	pH <i>(not applicable to gases)</i>	6.0 - 8.0 (1% aqueous solution)
l)	Kinematic viscosity <i>(applies to liquids only)</i>	Not applicable
m)	Solubility	In water: 358 g/l
n)	Partition coefficient n-octanol/water (log ratio value)	No data
o)	Vapor pressure	Not applicable
p)	Density or relative density <i>(applies to liquids and solids only)</i>	2.165 g/cm <sup>3</sup> (20°C)
q)	Relative vapor density <i>(applies to gases and liquids only)</i>	Not applicable
r)	Particle characteristics <i>(applies to solids only)</i>	No data

#### 9.2. Other information

No additional results of tests

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Corrosion properties in relation to metals.

#### 10.2. Chemical stability

The product is stable under normal conditions of handling, storage and transport.

#### 10.3. Hazardous reactions

No.

#### 10.4. Conditions to be avoided

Avoid elevated temperatures, direct sunlight, hot surfaces and open flames. Avoid contact with solvents.

#### 10.5. Incompatible materials

Solvents

#### 10.6. Hazardous products of decomposition

No decomposition under normal conditions of use and storage.

Thermal decomposition products, see section 5.

### SECTION 11: Toxicological Information

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

a)	Acute toxicity	On the basis of the available data the criteria of classification are not satisfied
b)	Caustic / skin irritation	On the basis of the available data the criteria of classification are not satisfied
c)	Serious damage to eyes/eye irritation:	On the basis of the available data the criteria of classification are not satisfied
d)	Skin / airways sensitizing:	On the basis of the available data the criteria of classification are not satisfied

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e)	Mutagenic for reproductive cells:	On the basis of the available data the criteria of classification are not satisfied
f)	Carcinogenicity:	On the basis of the available data the criteria of classification are not satisfied
g)	Reproductive toxicity	On the basis of the available data the criteria of classification are not satisfied
h)	Specific target organ toxicity - single exposure	On the basis of the available data the criteria of classification are not satisfied
i)	Specific target organ toxicity - repeated	On the basis of the available data the criteria of classification are not satisfied
j)	Hazards arising from aspiration	On the basis of the available data the criteria of classification are not satisfied

#### **Toxicological data:**

LD50 (mouse, oral) - 4000 mg/kg

LD50 (rat, oral) - 3000 mg/kg LDLO

(rabbit, oral) - 8 g/kg

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

##### **Information on exposure hazards:**

Skin contact: may cause mild irritation in case of frequent direct contact. Eye contact: possible mechanical irritation in case of a direct contact.

Respiratory system: inhalation of concentrated dust can cause irritation of the mucous membranes of the nose, throat and downstream respiratory system.

Gastrointestinal tract: ingestion of large amounts can cause symptoms of food poisoning, abdominal pain, nausea, vomiting.

##### **Delayed direct and chronic effects of short-term and long-term exposure:**

No data

##### **Effects of interaction:**

No data

## **SECTION 12: Ecological information**

#### **12.1. Toxicity**

The substance is not classified as hazardous to the environment. Do not allow the product to enter drains or ground waters, sewage system and watercourses.

LC50 for fish: 7341 - 9675 mg/l/96h

#### **12.2. Persistence and decomposition**

No data

#### **12.3. Bio-accumulation**

No data

#### **12.4. Mobility in a soil**

No data

#### **12.5. Results of assessment of the PBT and the vPvB properties**

The substance does not meet the PBT and vPvB criteria.

#### **12.6. Endocrine disrupting properties**

A substance that does not disrupt the endocrine system.

#### **12.7. Other harmful effects**

No data

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#### **SECTION 13: Wastes disposal**

##### **13.1. Methods of wastes utilization**

Disposal of waste and disposable packaging should be handled by specialized companies. Store the residues in the original containers. Dispose acc. to regulations in force. Empty, cleaned packaging should be disposed of (including recycling) in accordance with applicable regulations.

Determine waste codes at the place of production in accordance with the Ordinance of the Minister of Climate dated 2 January 2020 on the waste catalog (Journal of Laws, item 10):

##### Community regulations:

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

#### **SECTION 14: Transport information**

##### ADR/RID/IMDG/IATA:

##### **14.1. UN number or ID number**

Not applicable. The product is not classified as the hazardous one during the transport.

##### **14.2. Correct UN transport name**

Not applicable. The product is not classified as the hazardous one during the transport.

##### **14.3. Transport hazard class**

Not applicable. The product is not classified as the hazardous one during the transport.

##### **14.4. Packages group**

Not applicable. The product is not classified as the hazardous one during the transport.

##### **14.5. Hazards for the environment**

Not applicable. The product is not classified as the hazardous one during the transport.

##### **14.6. Special precautions for users**

Not applicable. The product is not classified as the hazardous one during the transport.

##### **14.7. Sea transport in bulk according to IMO instruments**

Not applicable. The product is not classified as the hazardous one during the transport.

#### **SECTION 15: Regulatory information**

##### **15.1. Specific legal regulations regarding the safety, the health and the environment protection for a substance or a mixture.**

1. Regulation (EC) No. 1907/2006 dated 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), as amended.
2. 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, Authorization and Restriction of Chemicals (REACH)
3. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council dated 16 December 2008 (CLP) as amended.
4. Act dated 25 February 2011 on chemical substances and their mixtures (i.e. Journal of Laws 2019, item 1225).
5. Law dated 28 May 2020 on amendments to the Law on chemical substances and their mixtures and some other laws (Journal of Laws 2020, item 1337).
6. Law of 14 December 2012 on waste (i.e. Journal of Laws 2019, item 701). (Journal of (Laws, No. 2019, item 701).
7. Law dated 13 June 2013 on package and waste management (i.e. Journal of Laws of Laws 2019, item 542).
8. Regulation of the Minister of Climate of 2 January 2020 on the waste catalog (Journal of Acts 2020, item 10).

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9. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.
10. Announcement of the Speaker of the Sejm of the Republic of Poland dated 20 December 2019 on the announcement of the consolidated text of the Law on Transportation of Hazardous Goods (Journal of Laws 2020, item 154).
11. ADR Agreement 2019 - Government Statement of 18 February 2019 on the entry into force of the amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (Journal Laws, item 769).
12. Ordinance of the Minister of Labor and Social Policy dated 12 June 2018 on permissible concentrations and strengths of compounds / substances harmful for health in the work environment (Journal of Acts, item 1286 as amended).
13. Ordinance of the Minister of Health dated 30 December 2004 on safety and hygiene of work related to existence of chemical agents at the work environment (i.e. (Journal of (Laws, No. 2016, item 1488).
14. Ordinance of the Minister of Health dated 9 December 2003 on substances which pose serious hazard for the environment (Journal of Acts No. 217, item 2172).

#### 15.2. Assessment of the chemical safety

No chemical safety assessment.

Appendix XIV to the Regulation REACH – List of substances subject of the permit procedure: not applicable

SVHC - Substance of very high concern waiting for permit: Not applicable

Appendix XVII to the Regulation REACH – Restrictions concerning production, entering into the market and application of some of hazardous substances: not applicable

## SECTION 16: Other Information

#### H statements:

No

#### Description of applied abbreviations, acronyms and symbols:

**NDS** - the highest permissible concentration

**NDSch** - Maximum Permissible Instantaneous Concentration

**NDSP** - Maximum Permissible Concentration Ceiling

**LDLo** - the lowest lethal dose, statistically determined the size of a single dose of a substance,

**LC50 - (lethal concentration)** - median lethal concentration, a statistically determined concentration of a substance, after exposure to which 50 percent of the organisms (exposed to the substance) can be expected to die during the exposure or during a specified contractual post-exposure period.

**LD50 - (lethal dose)** - medial lethal dose, the statistically determined size of a single dose of a substance, after administration of which 50% of exposed test organisms can be expected to die.

**vPvB** – very persistent and very bio-accumulative substance

**PBT** - persistent, bioaccumulative and toxic substances

**ADR** – European agreement on the road transport of hazardous goods.

**RID** – Regulations Concerning the International Carriage of Dangerous Goods by Rail

**IMDG** – International Maritime Dangerous Goods Code

**IATA** – Regulation on the transport of dangerous goods issued by the International Air Transport Association

#### Changes to the previous version:

Section:	Description:
Section 2	Change of an entry in accordance with Reg. 2020/878
Section 9	Change of an entry in accordance with Reg. 2020/878
Section 11	Change of an entry in accordance with Reg. 2020/878
Section 12	Change of an entry in accordance with Reg. 2020/878
Section 14	Change of an entry in accordance with Reg. 2020/878



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Section 15	Regulatory change
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#### **Trainings:**

Not required

#### **RESOURCES**

Annex to Regulation (EU) 2020/878 dated 18 June 2020. Legal regulations referred to in section 15 of the MSDS. Information of the Office for Chemical Substances.

Information contained in the MSDS concern exclusively the product named in the title. The data contained in the data sheet should be considered only as an aid to the safe use of the product: **Brewed salt, vacuum**. Since conditions of storage and transport are beyond our control, we cannot give legal guarantees. Each time follow statutory regulations as well as regulations stipulated by potential third parties. The MSDS does not comprise an assessment of hazard at job. The product should not be used for purposes other than those laid down in the Section 1 without prior consultation with **TOMCHEM F.H.U.**

Developed at SPIN-DORADTWO [www.spin-doradztwo.pl](http://www.spin-doradztwo.pl) for **TOMCHEM F.H.U.**