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

### 1.1. Product identifier

**Sodium chloride (CAS No.: 7647-14-5, EC No.: 231-598-3)**

**Synonyms:** Vacuum evaporated salt (wet and dry), food grade salt, food grade iodized salt, food grade salt without anti-caking agent, kitchen salt, iodized kitchen salt, table salt, feed salt, industrial salt, sodium chloride - nitrite curing salt, nitrited curing salt, salt, salt tablets for water softening systems, salt granules for dishwashers, winter sidewalks salt, dry sodium chloride, wet sodium chloride, wet sodium chloride - type II, food grade sodium chloride, food grade iodized sodium chloride, dry sodium chloride without anti-caking agent/without anti-caking agent, sodium chloride - feed salt grade, sodium chloride - salt granules.

**The registration number: The substance is not subject to registration in accordance with paragraph 7 of Annex V of the REACH Regulation.**

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

**Relevant identified uses:** Depending on the type of product - food, meat processing, fodder, chemical and detergent industry, as an ingredient in cosmetic products, tanning, water softening systems, for de-icing sidewalks.

Certain uses of this substance may be regulated or restricted by national or international standards. The buyer and the eventual user, under their sole and absolute responsibility, will comply with these standards, the orders of the relevant authorities and all existing patents and intellectual property rights; will comply with the laws and regulations applicable to our products and/or their operations. The buyer and the possible user must independently determine the suitability of a given product for a specific purpose and method of its use.

**Uses advised against:** Not determined.

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

**Manufacturer:** CIECH Soda Polska S.A.

**Address:** Poland; PL 88-101 Inowrocław; 4 Fabryczna Street


**Telephone:** +48 52 354 15 00

**Distributor:** CIECH S.A.

**Address:** Poland; PL 00-684 Warszawa; 62 Wspólna Street,

**Telephone:** +48 572 660 404

**E-mail address** of the person responsible for the SDS: [sds@ciechgroup.com](mailto:sds@ciechgroup.com)

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#### 1.4. Emergency telephone number

112 (emergency call), 999 (emergency telephone number)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation 1272/2008/EC:

Does not meet the criteria of classification.

### 2.2. Label elements

#### Label accordance with Regulation 1272/2008/EC (CLP)

**Hazard pictograms, signal words:** None.

**Hazard statements:** None.

**Precautionary statements:** None.

### 2.3. Other hazards

The potential risk is at work: the possibility of salt dust release, which may exceed the TWA indicator for non-toxic dust (given in section 8.1).


The substance does not meet the criteria for PBT and vPvB. The PBT or vPvB criteria of Annex XIII to the Regulation 1907/2008/EC does not apply to inorganic substances.

The substance has not been included in the list established in accordance with Article 59 (1) of the REACH Regulation as having endocrine disrupting properties. The substance does not meet the criteria for substances with endocrine disrupting properties as set out in Commission Regulation (EU) 2017/2100 (OJ L 301, 17.11.2017) and Commission Regulation (EU) 2018/605 (OJ L 101, 20.4.2018 as amended).

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

<b>Substance name:</b>	<b>Sodium chloride</b>
<b>Concentration [%]:</b>	>98.4
<b>CAS Number:</b>	7647-14-5
<b>EC Number:</b>	231-598-3
<b>Index Number:</b>	-
<b>Classification 1272/2008/EC:</b>	None

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:** Move the affected person to fresh air and keep rested. Seek medical advice if necessary.

**Skin contact:** Immediately remove contaminated clothing. Flush contaminated skin with plenty of water and soap, then rinse with plenty of water. Seek medical advice if necessary.

**Eye contact:** Remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Avoid strong stream of water due to the risk of mechanical damage to the cornea. It is recommended to use permanent or portable eye washers. Seek medical advice if necessary.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, and then drink plenty of water. Seek medical advice if necessary.

**Persons providing assistance** should use appropriate personal protective equipment (given in section 8.2.2.), ensure adequate general and local ventilation, avoid direct contact with the substance, avoid inhalation of dust.

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

**Inhalation:** Salt dust may cause slight irritation of the respiratory tract and mucous membranes of nose and throat.

**Eye contact:** Causes irritation, redness, tearing.

**Skin contact:** May cause slight redness, irritation.

**Ingestion:** After ingestion of larger amounts there are nausea and/or vomiting.

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

Remove affected person from the contaminated product of the environment. In the event of health problems, consult your doctor or the center of toxicological concern. Provide the information contained in the SDS. If unconscious, do not give anything by mouth.

## SECTION 5: Firefighting measures


### 5.1. Extinguishing media

**Suitable extinguishing media:** Extinguishing media suitable to the burning media in the surrounding should be applied.

**Unsuitable extinguishing media:** Water jet.

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

Non-flammable substance. In case of fire hazardous products may be formed: sodium oxide and hydrogen chloride gas. Avoid inhalation of combustion products because they may pose a health risk.

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### 5.3. Advice for firefighters

Wear full protective equipment and self-contained breathing apparatus with independent air circulation. Containers exposed to fire or high temperature cool with water and if possible remove from the danger zone. Take up mechanically. Protect drains, surface waters and soil from pollution. Water from fire treated as hazardous pollution and accumulate in separate containers.

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## SECTION 6: Accidental release measures

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

**For non-emergency personnel:** Access of non-emergency personnel to the area of accident should be restricted until the completion of the disposal of the product. Wear appropriate personal protective equipment. Do not drink, eat and smoke. Provide adequate local and general ventilation. Avoid direct contact with the substance. Avoid inhalation of dust.

**For emergency responders:** Wear appropriate personal protective equipment. Do not drink, eat and smoke. Provide adequate local and general ventilation. Avoid direct contact with the substance. Avoid inhalation of dust.

### 6.2. Environmental precautions

Secure the gullies. Prevent contamination of surface water and ground. In the event of any serious pollution of the environment, notify the appropriate administrative authority, control and rescue services.

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

Secure the gullies. Secure damaged packaging. Collect the spilled substance mechanically avoiding the formation of dust, transfer to a tightly sealed containers and direct to the destruction or re-use. Flush contaminated area with plenty of water.

### 6.4. Reference to other sections

Disposal - see Section 13. Personal protective equipment - see Section 8.2.2.

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## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

Do not allow to exceed the normative concentrations of hazardous constituents in the workplace. Provide adequate local exhaust and general ventilation. The workplace should be equipped with a safety shower and eyewash station. It is recommended to use fixed (EN 15154-2:2006) or portable (EN 15154-4:2009) eye washers. Prevent against penetration into drains, surface and ground water and soil. Prevent the use of mutually incompatible materials (given in section 10.5).

Mandatory general regulations on occupational health. Do not eat, drink, take drugs at work or smoke. Avoid skin and eye contact. Avoid inhalation of dust. Remove contaminated clothing and protective equipment before entering dining areas. Wash your hands before

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break and after working with the product. After use, wash the body surface and personal protective equipment. Contaminated clothing should be changed and cleaned before reuse. Use protection measures given in section 8.2.2.

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

Keep in properly labelled, factory tightly sealed containers, with a label which complies with current regulations. Store in cool, dry (humidity below 75 %), and well-ventilated storage room. Protect against moisture (substance may be lumpy). Avoid contact with acids, alkali metals and strong oxidants. Corrosive to metals in the aquatic environment.

### 7.3. Specific end use(s)

See in section 1.2.

Follow the instructions given in this SDS.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Substance name	TWA	STEL	BLV
<b>Dusts</b>	10 mg/m <sup>3</sup> (inhalable dust)	-	-
	4 mg/m <sup>3</sup> (respirable dust)		

**Legal basis:** Ordinance on maximum permissible concentration and intensity of harmful factors in the work environment in accordance with national limit values. EH40/2005 Workplace exposure limits, fourth edition, published 2020, ISBN 978 0 7176 6733 8.

### Monitoring procedures:

Use methods described in European Standards.

### 8.2. Exposure controls

#### 8.2.1 Appropriate engineering controls

Appropriate precautions for use and storage of the product are given in section 7.


#### 8.2.2 Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear suitable protective glasses of goggles type, e.g. made of polycarbonate (EN 166).

**Skin Protection:** In industrial usage wear protective clothing made of natural materials (cotton) or synthetic fibers and gloves (glove materials: nitrile-, butyl-, neoprene-rubber) or PVC (glove thickness: 0.5 mm, break through time: ≥480 min) (EN 374).

**Respiratory protection:** In the case of high concentrations of dust, use respiratory equipment with particle filter color-coded white and the P symbol. It is recommended to use filtering half masks to protect against particles (EN 149).

**Thermal Hazards:** Protection is not required.

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The personal protective equipment used should meet the requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L 81, 31.3.2016). The employer must provide personal protective equipment appropriate to the type of work and in accordance with all requirements, including maintenance and cleaning.

Concentrations of hazardous substances in the workplace should be monitored in accordance with acknowledged test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

### 8.2.3 Environmental exposure controls

Do not introduce the product to ground water, sewage, waste water or soil.

## SECTION 9: Physical and chemical properties

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

<b>Physical state:</b>	Solid - fine-crystalline product (salt), round tablets (Salt tablets), granules (Salt granules)
<b>Colour:</b>	White excluding products: Salt granules - white or slightly grey winter sidewalks salt - white with an acceptable shade of grey
<b>Odour:</b>	Without any foreign smell
<b>Melting point/freezing point:</b>	801 °C
<b>Boiling point or initial boiling point and boiling range:</b>	In accordance with Annex VII of REACH (point 7.3), study does not need to be conducted, as sodium chloride has a melting point >300 °C
<b>Flammability:</b>	Non-flammable substance
<b>Lower and upper explosion limit:</b>	In accordance with Annex VII of REACH (point 7.11) the test does not need to be conducted. Based on the lack of chemical groups associated with explosive properties in the structure of the substance, its classification as explosive is not warranted
<b>Flash point:</b>	In accordance with Annex VII of REACH (point 7.9) a flash point study is not needed, as sodium chloride is inorganic
<b>Auto-ignition temperature:</b>	The product is not self-igniting
<b>Decomposition temperature:</b>	No data available
<b>pH:</b>	5.5-8.5 (1 % aqueous solution at 25 °C)
<b>Kinematic viscosity:</b>	Not applicable (substance as a solid)
<b>Solubility:</b>	In water: 358 g/l (20 °C) In ethanol: 0.51 g/l (25 °C)
<b>Partition coefficient n-octanol/water (log value):</b>	In accordance with Annex VII of REACH (point 7.8) the study does not need to be conducted as



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#### Vapour pressure:

sodium chloride is an inorganic substance  
In accordance with Annex VII of REACH (point 7.5), a vapour pressure study does not need to be conducted as sodium chloride has the melting point above 300 °C. Sodium chloride is an inorganic salt, and therefore the value of the vapor pressure can be considered negligible

#### Density and/or relative density:

Density: 2.17 g/cm<sup>3</sup> (20 °C)

#### Relative vapour density:

Not applicable (substance is a solid)

#### Particle characteristics:

Typical values (sieve analysis)

≤5 % >0.63 mm

≥90 % >0.2 mm

≤5 % <0.063 mm

## 9.2. Other information

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

Not applicable.

### 9.2.2. Other safety characteristics

Water solutions are corrosive.

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## SECTION 10: Stability and reactivity

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### 10.1. Reactivity

Under the conditions of storage and handling as intended - no reactivity. A hygroscopic substance.

### 10.2. Chemical stability

Stable under normal conditions of use and storage. A hygroscopic substance.

### 10.3. Possibility of hazardous reactions

Not known.

### 10.4. Conditions to avoid

Moisture (substance may be lumpy).


Incompatible materials are listed in section 10.5.

### 10.5. Incompatible materials

Acids, alkali metals and strong oxidants. Corrosive to metals in the aquatic environment.

### 10.6. Hazardous decomposition products

Vapors of hydrogen chloride and sodium oxide are generated after heating to the decomposition temperature.

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## 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.

**Oral:**

LD<sub>50</sub> (rat) 3000 mg/kg b.w. (Toxicology and Applied Pharmacology, 1971)

LD<sub>50</sub> (mouse) 4000 mg/kg b.w. (Farmaco, 1972)

**Dermal:**

LD<sub>50</sub> (rabbit) >10000 mg/kg b.w. (BIOFAX Industrial Bio-Test Laboratories, 1971)

**Inhalation:**

LC<sub>50</sub> (rat) >42000 mg/m<sup>3</sup>/1h air (BIOFAX Industrial Bio-Test Laboratories, 1971)

**Skin corrosion/irritation:**

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

Prolonged contact may cause skin irritation.

**Serious eye damage/irritation:**

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

Causes eye irritation.

**Respiratory or skin sensitization:**

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.

**Health effects of exposure are given in section 4.2**



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## 11.2 Information on other hazards

### 11.2.1. Endocrine disrupting properties

The substance has not been included in the list established in accordance with Article 59 (1) of the REACH Regulation as having endocrine disrupting properties. The substance does not meet the criteria for substances with endocrine disrupting properties as set out in Commission Regulation (EU) 2017/2100 (OJ L 301, 17.11.2017) and Commission Regulation (EU) 2018/605 (OJ L 101, 20.4.2018 as amended).

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## SECTION 12: Ecological information

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### 12.1. Toxicity

Harmful to vegetation growth, plankton and fish life.

#### Acute toxicity to fish:

LC<sub>50</sub> (*Lepomis macrochirus*) 5840 mg/l/96h (Birge WJ *et al.*, 1985)

LC<sub>50</sub> (*Pimephales promelas*) 6390 mg/l/96h (Mount DR *et al.*, 1997)

#### Acute toxicity to aquatic invertebrates:

LC<sub>50</sub> (*Daphnia magna*) 3412 mg/l/24h (Dowden BF; Proc La Acad Sci 23, 1961)

### 12.2. Persistence and degradability

Sodium chloride in the form of tablets in contact with water is slowly dissolved. Is an inorganic substance which cannot be oxidized or biodegradable by microorganisms. Sodium chloride is in dissociated form in water.

### 12.3. Bioaccumulative potential

In accordance with point 1 of REACH Annex XI, the study does not need to be conducted as in water, sodium chloride in the environment is in the dissociated form, which means that it will not accumulate in living tissues.

Octanol-water partition coefficient (K<sub>ow</sub>): Not applicable (sodium chloride is inorganic salt).

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

### 12.4. Mobility in soil


In accordance with point 1 of Annex XI of the REACH Regulation, the study is not need, because sodium chloride is in the environment in the form of ions, which means that it will not be adsorbed.

### 12.5. Results of PBT and vPvB assessment

The PBT or vPvB criteria of Annex XIII to the Regulation does not apply to inorganic substances.

### 12.6. Endocrine disrupting properties

The substance has not been included in the list established in accordance with Article 59 (1) of the REACH Regulation as having endocrine disrupting properties. The substance does not meet the criteria for substances with endocrine disrupting properties as set out in

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Commission Regulation (EU) 2017/2100 (OJ L 301, 17.11.2017) and Commission Regulation (EU) 2018/605 (OJ L 101, 20.4.2018 as amended).

#### 12.7. Other adverse effects

No data available.

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### SECTION 13: Disposal considerations

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#### 13.1. Waste treatment methods

During removal of waste comply with the regional/national laws.

#### Community legislation:

- Directive **2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (OJ L 312, 22.11.2008 as amended).
- European Parliament and Council Directive **94/62/EC** of 20 December 1994 on packaging and packaging waste (OJ L 365, 31.12.1994 as amended).

**Disposal methods for the product:** Do not introduce into the environment. Collect spilt substance to the containers. Reused or pass in a properly labelled containers for disposal to the qualifying company.

**Disposal methods for used packing:** Do not introduce into the environment. Packaging disposed of as waste material; pass in a properly labelled containers for disposal to the qualifying company.

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### SECTION 14: Transport information

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#### 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.

#### 14.4. Packing group


Not applicable.

#### 14.5. Environmental hazards

Substance is not dangerous for the environment in accordance with the UN Model Regulations criteria.

#### 14.6. Special precautions for user

Not applicable.

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

Not applicable.

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### SECTION 15: Regulatory information

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

**Regulation (EC) No 1907/2006** of the European Parliament and 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 (OJ L 396, 30.12.2006 as amended).

**Regulation (EC) No 1272/2008** 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 (OJ L 353, 31.12.2008 as amended).

**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) (OJ L 203, 26.6.2022).

#### 15.2. Chemical safety assessment

The Chemical Safety Assessment has not been prepared by supplier. The substance is not subject to registration in accordance with paragraph 7 of Annex V of the REACH Regulation.

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### SECTION 16: Other information

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#### Key to abbreviations and acronyms:

b.w. - Body weight

BLV - Biological limit values.

CAS Number - Each substance registered in the CAS Registry is assigned a CAS Registry Number. The CAS Registry Number is widely used as a unique identifier of chemical substances.

EC Number - Inventory composed of three combined European lists of substances from the previous EU chemicals regulatory framework: EINECS, ELINCS and the NLP-list (no-longer polymers).


IMO - International Maritime Organization.

Index Number - The number assigned to the chemical substance in Annex VI of the CLP Regulation.

LC<sub>50</sub> - Median lethal concentration.

LD<sub>50</sub> - Median lethal dose.

PBT - Persistent, bioaccumulative and toxic.

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STEL - Short-term exposure limit.  
 TWA - 8 hours time-weighted average.  
 vPvB - Very persistent and very bioaccumulative.

**Sources of key data:** Producer SDS from 1<sup>st</sup> December 2010.

**Training advice:** Before use read the SDS.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are also treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above also of improper compliance with the law norms in the field.

The information contained in this safety data sheet has been prepared by the manufacturer and verified by the ISOTOP s.c. Consulting Company; **www.isotop.pl**; e-mail: **reach@isotop.pl**

This SDS replaces and annuls all the previous versions.  
 Changes made in relation to the previous edition – sections: 1, 2, 4, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16.