

**SAFETY DATA SHEET**

In accordance with REACH Regulation (CE) N° 1907/2006

**SALT TABLETS - SODIUM CHLORIDE**

Printing date: 09.02.2012

Revision: 12.01.2016

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Produkt details**

PRODUCT NAME:

**SALT TABLETS - SODIUM CHLORIDE**

Index ---

**CAS Numer**

7647-14-5

**EINECS**

231-598-3

**Registration numer REACH:** ---**1.2. Application of the substance**

General industrial application.

**Uses advised against:**

other functions than those mentioned above.

**1.3 Supplier:**

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)

**SECTION 2: Hazards identification****2.1. Classification of the substance****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:**

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**Pictograms:**

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**Hazard statements**

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**Precautionary statements****P260** Do not breathe dust.**Additional information:**

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**2.3. Other hazards**

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The product does not contain ingredients that meet the criteria for PBT or vPvB in accordance with Annex XIII.  
The ability to create a cloud of dust from the mixture.

**SECTION 3: Composition/information on ingredients****3.1 Substances****Hazardous ingredients:**

Name of substance	Identifier	% weight
Sodium chloride	Index --- CAS 7647-14-5 EINECS 231-598-3	min 96

**Pollutants:**

Lead	Indeks --- CAS 7439-92-1 WE 231-100-4	max. 0.001
Arsenic	Indeks 033-001-00-X CAS 7440-38-2 WE 231-148-6	max. 0.0005
Cadmium (non-pyrophoric)	Indeks 048-002-00-0 CAS 7440-43-9 WE 231-152-8	max. 0.00005
Mercury	Indeks 080-001-00-0 CAS 7439-97-6 WE 231-106-7	max. 0.00003

**Additionally product contain:**

Water (105 °C)	max. 0,5
Insoluble in water,	max. 0,05
Anti-caking agent E 536 (K4 [Fe (CN) 6])	max. 0,003
Chemical formula:	

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

- Immediately leave the contaminated area; take deep breaths of fresh air
- If the person breathe large amount of vapours, the exposed person on fresh air.
- Seek medical advice.

**Ingestion:**

- If victim is conscious and alert, give 2-3 glasses of water to drink.
- Do not induce vomiting.
- Seek immediate medical advice.

**Eye contact:**

Immediately flush eyes with large amounts of water for at least 15 -20 minutes while holding the eyelids open to ensure that the entire surface is flushed (remove contact lenses before).

- Do not put any ointments, oils or medication.
- Seek medical immediately (show the label where possible).

**Skin contact:**

- Immediately wash with water and soap and rinse thoroughly. Wash contaminated clothing before reuse.
- If irritation persists, seek medical attention.

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#### 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

At the workplace should be available for first aid measures.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

In case of fire, the following can be released:

Hydrogen chloride gas, Sodium oxides.

##### Explosive mixture:

Not applicable.

#### 5.3. Advice for firefighters

##### Protective equipment:

High temperatures may cause pressure build-up in closed containers.

During the thermal decomposition produced of harmful compounds.

Reduce dust with water spray.

##### Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary

Independent self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

Use proper personal protective equipment as indicated in Section 8.

Keep away any ignition source.

Wear protective equipment. Keep unprotected persons away.

If dust is formed, use personal protective equipment.

#### 6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Dispose contaminated material as waste according to item 13.

#### 6.4. Reference to other sections

See Section 7 for information on safe handling.

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

When you have all the activities carried out with the substance.

- Do not eat, drink, smoke or take drugs,
- Avoid direct contact with the substance,
- Avoid breathing dust,
- observe good personal hygiene.

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Only handle and refill product in closed systems or under local exhaust.  
Pneumatic conveyance only with nitrogen or other inert gases.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements to be met by storerooms and receptacles:**

Store in cool place.

Keep container tightly closed in a dry and well-ventilated place.

**Further information about storage conditions:**

Keep receptacle tightly sealed.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

**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
Lead and its inorganic compounds - as a Pb	CAS 7439-92-1	0.05 mg/m <sup>3</sup> TWA
Arsenic and its inorganic compounds - as a As	CAS 7440-38-2	0.01 mg/m <sup>3</sup> TWA
Cadmium and its inorganic compounds - as a Cd – dust and gases	CAS 7440-43-9	0.01 mg/m <sup>3</sup> TWA
Mercury and its inorganic compounds - as a Hg	CAS 7439-97-6	0.002 TWA (respirable fraction) 0.05 mg/m <sup>3</sup> TWA (vapor) 10 mg/m <sup>3</sup> IDLH

**Maximum concentrations in biological material (DSB)**

Lead and inorganic lead compounds	Lead	blood	400 µg/l
	ZPP zinc protoporphirin	blood	700 µg/l
	delta-aminolevulinic acid	urine	8 mg/l
Arsenic	Arsenic	urine	35 µg/l
Cadmium	Creatinine	blood	10 µg/g
	Cadmium	blood	5 µg/l
Mercury	Creatinine	urine	35 µg/g

**8.2. Exposure controls****Appropriate engineering controls**

Do not allow to cross the workplace environment of normative components of hazardous concentrations.

Storage rooms must be efficiently ventilated.

**Individual protection measures**

Eye protection or face goggles

Provide easy access to running water.

Eye wash bottle with pure water or a washcloth to the eye near the work place.

**Skin protection****Protection of hands:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Full contact**

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min.

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**Splash contact**

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific work-place.

**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.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance:</b>	Solid in the form of briquettes, taste salty..
<b>Colour:</b>	Write.
<b>Odour:</b>	Odourless.
<b>pH:</b>	6,0 - 8,0 (1 % solution /20°C)
<b>Melting point/freezing point:</b>	800.7 - 801°C (Sodium chloride)
<b>Initial boiling point and boiling range;</b>	1413 - 1465°C (Sodium chloride)
<b>Upper/lower flammability or explosive limits;</b>	No data available.
<b>Vapor pressure (relative to air):</b>	1.3 mm Hg w 865°C
<b>Relative density:</b>	2.165 - 2.17 g/cm <sup>3</sup> (Sodium chloride)
<b>Solubility in water:</b>	357 g/l (0 °C), 360 g/l (20 °C), 391 g/l (100 °C).
<b>Solubility in other solvents:</b>	Soluble in glycerol, ethylene glycol, and formic acid, low in ethanol, methanol - 14.9 g / l, in liquid ammonia - 21.5 g / l /
<b>Partition coefficient: n-octanol/water;</b>	
<b>Auto-ignition temperature;</b>	No data available.
<b>Decomposition temperature:</b>	801°C.
<b>Viscosity;</b>	No data available.
<b>Explosive properties;</b>	No data available.
<b>Oxidising properties:</b>	No data available.

**9.2. Other information**

**The content of organic solvents:** No data available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Not reactive if used according to specifications.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

The mixture formulated explosive mixture with air.

**10.4. Conditions to avoid**

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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 toxicological effects

##### Substances

##### Acute toxicity:

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

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

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

LDL<sub>0</sub> (oral, rabbit): 8 g / kg

LDL<sub>0</sub> (subcutaneous guinea pig): 2160 mg / kg

##### Skin corrosion / irritation:

May cause skin irritation in susceptible persons.

##### Serious eye damage / eye irritation;

Not applicable.

##### Sensitisation by inhalation or skin;

Not applicable.

##### Carcinogenicity

Not applicable.

##### Mutagenicity

Not applicable.

##### Reproductive toxicity:

Not applicable.

##### Routes of exposure:

Inhalation, ingestion, skin contact, eye contact.

Local effects:

##### Contact with skin:

Dust may cause slight irritation. May 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.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Acute toxicity:

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**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)  
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> - Algae (*Nitzschia sp.*) 2430 mg/l (5 days)

**12.2. Persistence and degradability**

Maximum concentrations of sodium ions into water and the land - 800 mg / l, chloride - 1000 mg / l, sulfate - 500 mg / l, cyanide-free - 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 and water**

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. Other adverse effects**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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.

**Waste disposal key:**

The European Union does not establish uniform rules for the disposal of chemical waste, which are special waste. Their treatment and elimination of the domestic legislation of each country. So, in each case, you should contact the relevant authorities, or those companies legally authorized for elimination of waste.

**Waste code package:**

15 01 02 plastic packaging.

**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.

**SECTION 14: Transport information**

ADR/RID

IMGD

IATA

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<b>14.1. UN number</b>	---	---	---
<b>14.2. UN proper shipping name</b>			
<b>14.3. Transport hazard class(es)</b>	---	---	---
<b>Label no</b>	---	---	---
<b>14.4. Packing group</b>	---	---	---
<b>14.5. Environmental hazards</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>14.6. Special precautions for user</b>		Not relevant.	
<b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b>		Not relevant.	

**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) No 830/2015 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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**

This information is based on the present state of our knowledge, they are no assurance of product features and shall not establish a contractual relationship.

**• Abbreviations and Acronyms:**

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

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)

**Note to readers**

The information in this SDS is based on our current knowledge and the current legislation.

The product shall not, without first obtaining written Instructions for purposes other than those mentioned in Section 1 purpose be used. It is always the user's responsibility to ensure compliance with statutory

Provisions to ensure. The information in this Safety Data Sheet describing the safety requirements for our product.

**Safety data sheet was prepared by:**

Przedsiębiorstwo Ekos S.C.



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Version: 1 CLP