

# **Material Safety Data Sheet**

Version:01 Revision Date 22/5/2025

Section 1	Section 1. Product Information and Company Identification				
Product name	Sodium Chloride Solution 0.1N				
Mol. formula	NaCl	CAS No.	7647-14-5		
Mol.wt	58.44 g\mol				
Manufacturer name	Pioneers for laboratory chemicals				
Brand name	Piochem				
Address	Area 540, Industrial Zone 6 <sup>th</sup> October city Giza, Egypt.				
Website	www.piochem.com				
E-mail	info@piochem.com				
Phone number	+201225728304	, +201023932115			

#### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

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

### 2.2 Label elements

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

### 2.3 Other hazards - none

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

### 3.1 Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

**Sodium Chloride** 

CAS-No. 7647-14-5 >=0.1 - < 1 %

EC-No. 231-598-3

Water

CAS-No. 7732-18-5 > 99 %

EC-No. 231-791-2

No components need to be disclosed according to the applicable regulations.

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

#### 4.1 Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

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

### 5.1 Extinguishing media

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Hydrogen chloride gas, Sodium oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

### **SECTION 6: Accidental release measures**

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

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

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

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

### 6.4 Reference to other sections

For disposal see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

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

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

Storage class (TRGS 510): Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

#### 8.1 Control parameters

### 8.2 Exposure controls

### Appropriate engineering controls

General industrial hygiene practice.

### Personal protective equipment

### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

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.

### **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 workplace.

### Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

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

### 9.1 Information on basic physical and chemical properties

	' '	• •
a)	Appearance	Form: Liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available

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p) Auto-ignition No data available temperature

q) Decomposition temperature

No data available

r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available

### 9.2 Other safety information

No data available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Sodium oxides Other decomposition products - No data available

In the event of fire: see section 5

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Rat - 3,550 mg/kg(Sodium chloride)

LC50 Inhalation - Rat - 1 h - > 42,000 mg/m3(Sodium chloride)

LD50 Dermal - Rabbit - > 10,000 mg/kg(Sodium chloride)

### Skin corrosion/irritation

No data available (Sodium chloride)

### Serious eye damage/eye irritation

No data available(Sodium chloride)

#### Respiratory or skin sensitisation

No data available(Sodium chloride)

### Germ cell mutagenicity

No data available(Sodium chloride)

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

No data available(Sodium chloride)

### Specific target organ toxicity - single exposure

No data available(Sodium chloride)

### Specific target organ toxicity - repeated exposure

No data available

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### **Aspiration hazard**

No data available (Sodium chloride)

#### **Additional Information**

RTECS: VZ4725000

Vomiting, Diarrhoea, Dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Sodium chloride)

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 5,840 mg/l - 96 h(Sodium chloride)

Toxicity to daphnia and

other aquatic invertebrates

NOEC - Daphnia (water flea) - 1,500 mg/l - 7 d(Sodium chloride)

LC50 - Daphnia magna (Water flea) - 1,661 mg/l - 48 h(Sodium chloride)

#### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available(Sodium chloride)

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

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

#### 14.1 UN number

ADR/RID: - IMDG: - IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods Not dangerous goods Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

### 14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

#### 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

# 14.6 Special precautions for user

No data available

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## **SECTION 15: Regulatory information**

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- **15.2 Chemical safety assessment**For this product a chemical safety assessment was not carried out.