

# MATERIAL SAFETY DATA SHEET SDS/MSDS

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

Product name	SODIUM PERCHLORATE
CAS-No.	: 7791-07-3

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

Identified uses	: Laboratory chemicals, Industrial & for professional use only.
-----------------	---

### **1.3 Details of the supplier of the safety data sheet** Company : Bio-Chem Chemicals

: Bio-Chem Chemicals 5455 NicholsonRoad, Science Market Ambala Cantt, 133001 - Haryana +91 82952 41953 info@biofinechemical.com - www.biofinechemical.com

### 1.4 Emergency telephone number

Emergency Phone # :+91 99921 51495 (10.00am - 06.30pm) (Office Hours)

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Oxidizing solids (Category 1), H271 Acute toxicity, Oral (Category 4), H302 For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



 Signal word
 Danger

 Hazard statement(s)
 H271
 May cause fire or explosion; strong oxidizer.

 H302
 Harmful if swallowed.

 Precautionary statement(s)
 P220
 Keep/Store away from clothing/ combustible materials.

 Supplemental Hazard
 none

 **2.3 Other hazards** - This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients 3.1 Substances Formula : CINaO4 · H2O Molecular weight : 140.46 g/mol

Molecular weight : 140.46 g/ CAS-No. : 7791-07-3 EC-No. : 231-511-9

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

	Component	Classification	Concentration		
Sodium perchlorate monohydrate					
CAS-No.	7791-07-3	Ox. Sol. 1; Acute Tox. 4;	<= 100 %		
EC-No.	231-511-9	H271, H302			
Index-No.	017-010-00-6				

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

# 4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
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. Consult a physician.

### 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

Use water spray to cool unopened containers.

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

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Sweep up and shovel.\'20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). 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

### Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.

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.

# 7.3 Specific end use(s)

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

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

# 8.1 Control parameters

# 8.2 Exposure controls

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

# Eye/face protection

Safety glasses with side-shields conforming to EN166 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**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

# 9.1 Information on basic physical and chemical properties

a) Appearance Form: Crystalline

Colour: white

- b) Odour No data available
- c) Odour Threshold No data available
- d) pH 4.5 7.0 at 50 g/l at 25 °C
- e) Melting point/freezing point : Melting point/range: 130 °C
- f) Initial boiling point and boiling range No data available
- g) Flash point Not applicable
- 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 2.020 g/cm3

- n) Water solubility No data available
- o) Partition coefficient n-octanol/ water : No data available
- p) Auto-ignition temperature : No data available
- q) Decomposition temperature : 482 °C
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties : The substance or mixture is classified as oxidizing with the category 1.

#### 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

Organic materials, Strong acids, Forms shock-sensitive mixtures with certain other materials., Powdered metals, Reducing agents, Magnesium

### **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 - 2,100 mg/kg(Sodium perchlorate monohydrate)

Skin corrosion/irritation No data available(Sodium perchlorate monohydrate) Serious eye damage/eye irritation No data available(Sodium perchlorate monohydrate) Respiratory or skin sensitisation No data available(Sodium perchlorate monohydrate) Germ cell mutagenicity No data available(Sodium perchlorate monohydrate) 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 perchlorate monohydrate) Specific target organ toxicity - single exposure No data available(Sodium perchlorate monohydrate) Specific target organ toxicity - repeated exposure

No data available(Sodium perchlorate monohydrate)

Aspiration hazard No data available(Sodium perchlorate monohydrate) Additional Information RTECS: SC9850000

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

**12.1 Toxicity** No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available(Sodium perchlorate monohydrate)

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

### **Contaminated packaging**

Dispose of as unused product.

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

<b>14.1 UN nu</b> ADR/RID: 1		IMDG: 1502	IATA: 1502	
14.2 UN proper shipping nameADR/RID:SODIUM PERCHLORATEIMDG:SODIUM PERCHLORATEIATA:SODIUM PERCHLORATE				
<b>14.3 Transport hazard class(es)</b> ADR/RID: 5.1IMDG: 5.1IATA: 5.1				
<b>14.4 Packa</b> ADR/RID: II		IMDG: II	ΙΑΤΑ: ΙΙ	
<b>14.5 Enviro</b> ADR/RID: n	onmental hazards	IMDG Marine pollutant: no	IATA: no	
<b>14.6 Special precautions for user</b> No data available				

### **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

### **SECTION 16: Other information**

### Full text of H-Statements referred to under sections 2 and 3.

H271 May cause fire or explosion; strong oxidizer.

H302 Harmful if swallowed.

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.