

# SODIUM PERCHLORATE CAS No 7791-07-3

# **MATERIAL SAFETY DATA SHEET** SDS/MSDS

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

1.1	Product identifiers Product name	:	Sodium Perchlorate
	CAS-No.	:	7791-07-3
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against		e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	.3 Details of the supplier of the safety data sheet		safety data sheet
	Company	:	Central Drug House (P) Ltd 7/28 Vardaan House New Delhi -110002 INDIA
	Telephone Email	:	+91 11 49404040 <u>care@cdhfinechemical.com</u>
1.4	Emergency telephone nu	nbe	er en

#### Emergency telephone number 1.4

: +91 11 49404040 (9:00am - 6:00 pm) [Office hours] Emergency Phone #

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

#### Classification of the substance or mixture 2.1

#### Classification according to Regulation (EC) No 1272/2008 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

Hazard statement(s) H271 H302	May Harr
Precautionary statement(s) P220 Supplemental Hazard Statements	Keej none

cause fire or explosion; strong oxidizer. nful if swallowed.

p/Store away from clothing/ combustible materials. 2

# 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	:	$\text{CINaO}_4 \cdot \text{H}_2\text{O}$
Molecular weight	:	140.46 g/mol
CAS-No.	:	7791-07-3
EC-No.	:	231-511-9
Index-No.	:	017-010-00-6

Hazardous ingredier Component	nts according to Regulati	on (EC) No 1272/2008 Classification	Concentration
Sodium perchlorate	monohydrate		
CAS-No.	7791-07-3	Ox. Sol. 1; Acute Tox. 4;	<= 100 %

EC-No.231-511-9H271, H302Index-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

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.

## strongly hygroscopic Storage class (TRGS 510): Strongly oxidizing hazardous materials

#### 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

0.1				
	a)	Appearance	Form: crystalline Colour: white	
	b)	Odour	No data available	
	c)	Odour Threshold	No data available	
	d)	рН	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	soluble	
	0)	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		ner 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

No data available(Sodium perchlorate monohydrate)

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

#### **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**

14.1	<b>UN number</b> ADR/RID: 1502	IMDG: 1502	IATA: 1502
14.2	UN proper shipping nameADR/RID:SODIUM PERCHLOIMDG:SODIUM PERCHLOIATA:Sodium perchlorate		
14.3	Transport hazard class(es) ADR/RID: 5.1	IMDG: 5.1	IATA: 5.1
14.4	Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user		

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.
11000	

# 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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.