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# Potassium Nitrite Crystal CAS No 7758-09-0

# MATERIAL SAFETY DATA SHEET SDS/MSDS

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1 Product identifiers

Product name : Potassium Nitrite Crystal

CAS-No. : 7758-09-0

#### 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	: Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA
Telephone	: +91 11 49404040
Email	: care@cdhfinechemical.com

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

#### 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Oxidizing solids (Category 2) Acute aquatic toxicity (Category 1) Acute toxicity, Oral (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC Contact with combustible material may cause fire. Toxic if swallowed. Very toxic to aquatic organisms.

# 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008 [CLP] Pictogram



Signal word

Hazard statement(s) H272 H301 H400

May intensify fire; oxidiser. Toxic if swallowed. Very toxic to aquatic life.

Precautionary statement(s)

P220 P273 P301 + P310	Keep/Store away from clothing/ combustible materials. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.			
Supplemental Hazard	none			
Statements				
According to European Dire Hazard symbol(s)	ctive 67/548/EEC as amended.			
R-phrase(s)	Original Acute taxicity aquate and management			
R 8	Contact with combustible material may cause fire.			
R25	Toxic if swallowed.			
R50	Very toxic to aquatic organisms.			
S-phrase(s)				
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).			
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.			
Other hazards - none				
COMPOSITION/INFORMATION ON INGREDIENTS				
<b>Substances</b> Formula Molecular Weight	: KNO <sub>2</sub> : 85,10 g/mol			
5	-			

2.3

3. 3.1

# Potassium nitrite

CAS-No.	7758-09-0
EC-No.	231-832-4
Index-No.	007-011-00-X

# 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. Take victim immediately to hospital. 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 Nausea, Vomiting, Headache, Impairment of vision, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3** Indication of any immediate medical attention and special treatment needed no data available

#### 5. FIREFIGHTING MEASURES

Concentration

-

### 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 nitrogen oxides (NOx), Potassium oxides

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Sweep up and shovel. 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.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

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

**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) no data available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses 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**

Complete suit protecting against chemicals, 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 a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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

	a)	Appearance	Form: crystalline Colour: light yellow
	b)	Odour	no data available
	c)	Odour Threshold	no data available
	d)	рН	7,0 - 10,0 at 50 g/l at 25 °C
	e)	Melting point/freezing point	Melting point/range: 350 °C - dec.
	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	1,915 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	no data available
		temperature	
	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 2.
9.2	Otł	ner safety information	
		Bulk density	0,98 g/l

# 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

no data available

10.2 Chemical stability no data available

- **10.3** Possibility of hazardous reactions no data available
- **10.4 Conditions to avoid** no data available
- **10.5** Incompatible materials Strong reducing agents, Powdered metals, Strong acids
- **10.6 Hazardous decomposition products** Other decomposition products - no data available

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

#### Acute toxicity

LC50 Inhalation - mouse - 2 h - 85.000 mg/m3 Remarks: Drowsiness Behavioral:Excitement. Behavioral:Muscle contraction or spasticity.

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization no data available

Germ cell mutagenicity no data available

#### Carcinogenicity

IARC: 2A - Group 2A: Probably carcinogenic to humans (Potassium nitrite)

#### **Reproductive toxicity**

Reproductive toxicity - rat - Oral Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated ).

Reproductive toxicity - guinea pig - Oral Effects on Newborn: Stillbirth.

#### Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard

no data available

#### Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

## Signs and Symptoms of Exposure

Nausea, Vomiting, Headache, Impairment of vision, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **Additional Information**

RTECS: TT3750000

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Danio rerio (zebra fish) - 620 mg/l - 96,0 h Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 215 mg/l - 48 h other aquatic invertebrates 12.2 Persistence and degradability no data available **Bioaccumulative potential** 12.3 no data available 12.4 Mobility in soil no data available 12.5 Results of PBT and vPvB assessment no data available 12.6 Other adverse effects Very toxic to aquatic life. 13. **DISPOSAL CONSIDERATIONS** 13.1 Waste treatment methods Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. **Contaminated packaging** Dispose of as unused product. **TRANSPORT INFORMATION** 14. 14.1 **UN number** IATA: 1488 ADR/RID: 1488 IMDG: 1488 14.2 UN proper shipping name ADR/RID: POTASSIUM NITRITE POTASSIUM NITRITE IMDG: IATA: Potassium nitrite 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: yes IMDG Marine Pollutant: yes IATA: no 14.6 Special precautions for user no data available 15. **REGULATORY INFORMATION** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** no data available
- 15.2 Chemical Safety Assessment no data available

# 16. OTHER INFORMATION

#### **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.