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# Phosphorous Red CAS No 7723-14-0

# MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers Product name	:	Phosphorous Red
	CAS-No.	:	7723-14-0
1.2	Relevant identified uses of	of th	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of t Company		safety data sheet Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com
1.4	Emergency telephone nu Emergency Phone #		er +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

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

### 2.1 Classification of the substance or mixture

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

Flammable solids (Category 1), H228 Chronic aquatic toxicity (Category 3), H412

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

## Classification according to EU Directives 67/548/EEC or 1999/45/EC

F	Highly flammable	R11
		R16
		R52/53

For the full text of the R-phrases mentioned in this Section, see Section 16.

# 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word

Hazard statement(s) H228

Flammable solid.

	H412	Harmful to aquatic life v	vith long lasting effects.	
	Precautionary statement(s) P210 P273	Keep away from heat/s Avoid release to the en	parks/open flames/hot surfaces vironment.	No smoking.
	Supplemental Hazard Statements	none		
2.3	Other hazards - none			
SECT	ION 3: Composition/informatio	on on ingredients		
3.1	CAS-No. : EC-No. : Index-No. : Hazardous ingredients accor Component Red phosphorus CAS-No. 77 EC-No. 23	P 30,97 g/mol 7723-14-0 231-768-7 015-002-00-7 ding to Regulation (EC) 723-14-0 31-768-7 15-002-00-7	<b>No 1272/2008</b> Classification Flam. Sol. 1; Aquatic Chronic 3; H228, H412	Concentration <= 100 %
	Hazardous ingredients accor	ding to Directive 1999/4	5/EC Classification	Concentration
	Component Red phosphorus		Classification	Concentration
	CAS-No. 77 EC-No. 23	723-14-0 31-768-7 15-002-00-7	F, R11 - R16 - R52/53	<= 100 %
	For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16			
SECT	ION 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

Do NOT induce vomiting. 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 Oxides of phosphorus
- **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.

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

6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. 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. 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. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

# 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.Take measures to prevent the build up of electrostatic charge. 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.

Heat sensitive.

#### 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

### Components with workplace 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**

Flame retardant antistatic protective 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 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).

#### Control of environmental exposure

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

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

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

a)	Appearance	Form: powder Colour: red brown
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	ca.3 at 10 g/l at 37 °C
e)	Melting point/freezing point	Melting point/range: 280 °C - lit.
f)	Initial boiling point and boiling range	no data available
g)	Flash point	not applicable
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 2.
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	0,04 hPa at 21 °C
I)	Vapour density	no data available
m)	Relative density	2,34 g/cm3 at 25 °C
n)	Water solubility	0,3 g/l at 20 °C - slightly soluble
o)	Partition coefficient: n- octanol/water	no data available
p)	Auto-ignition temperature	> 300 °C at 1.013 hPa
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** Heat, flames and sparks. Extremes of temperature and direct sunlight.
- **10.5** Incompatible materials Sulphur compounds, Oxidizing agents, Copper, Oxygen, Bases
- **10.6 Hazardous decomposition products** 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 - female - > 15.000 mg/kg (OECD Test Guideline 401)

#### Skin corrosion/irritation

Skin - rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - rabbit Result: No eye irritation - 24 h (OECD Test Guideline 405)

#### Respiratory or skin sensitisation

Buehler Test - guinea pig Result: Does not cause skin sensitisation. (OECD Test Guideline 406)

# Germ cell mutagenicity

Hamster fibroblast Result: negative

#### 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

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

# Aspiration hazard

no data available

#### Additional Information RTECS: TH3495000

Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue., Vomiting, Diarrhoea, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish	static test LC50 - Danio rerio (zebra fish) - 33,2 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 10,5 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test EC50 - Desmodesmus subspicatus (green algae) - 18,3 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	Respiration inhibition EC50 - Sludge Treatment - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

# 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

no data available

# 12.4 Mobility in soil

no data available

# 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

Harmful to aquatic life with long lasting effects.

# **SECTION 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.

# **SECTION 14: Transport information**

14.1	UN numbe ADR/RID: 1	-	IMDG: 1338	IATA: 1338
14.2		shipping name PHOSPHORUS, AN PHOSPHORUS, AN Phosphorus, amorp	MORPHOUS	
14.3	Transport I ADR/RID: 4	hazard class(es) 4.1	IMDG: 4.1	IATA: 4.1
14.4	Packaging ADR/RID: I	• •	IMDG: III	IATA: III

14.5 Environmental hazards ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

**14.6** Special precautions for user no data available

## **SECTION 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

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.

Aquatic Chronic	Chronic aquatic toxicity
Flam. Sol.	Flammable solids
H228	Flammable solid.
H412	Harmful to aquatic life with long lasting effects.

# Full text of R-phrases referred to under sections 2 and 3

F	Highly flammable
R11	Highly flammable.
R16	Explosive when mixed with oxidizing substances.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **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.