OM SHREE GANESHYA NAMAH



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MATERIAL SAFETY DATA SHEET (MSDS) PHOSPHOURS RED (FOR SYNTHESIS)

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier			
Trade name	: PHOSPHOURS RED (FOR SYNTHESIS)		
Product code	: P0160200500		
Identification of the product	: Red phosphorus CAS No: 7723-14-0 EC No :231-768-7 Annex No :015-002-00-7		
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against		
Use	: Industrial. For professional use only.		
1.3. Details of the supplier of the safety data sheet			
Company identification	SUVCHEM Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95		
1.4. Emergency telephone number	Email ID: info@suvchem.com/care@suvchem.com		
Phone no.	: + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]		

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification	: F; R11
	R16
	R52-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Physical hazards	: Flammable solids - Category 1 - Danger (CLP : Flam. Sol. 1) H228
Environmental hazards	: Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP : Aquatic Chronic 3) H412

2.2. Label elements

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2. Hazards identification -DSD (continued)

Labelling EC 67/548 or EC 1999/45

Symbol(s)



- 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. : S2 : Keep out of the reach of children. S7 : Keep container tightly closed. S43 : In case of fire, use . S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets. : Red phosphorus
Labelling Regulation EC 1272/2008 (CI	<u>_P)</u>
Hazard pictograms	
Signal words	: Danger
Hazard statements	: H228 : Flammable solid. H412 : Harmful to aquatic life with long lasting effects.
Precautionary statements	
• General	: P102: Keep out of reach of children. P103: Read label before use. P101: If medical advice is needed, have product container or label at hand.
Prevention	 P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical, ventilating, lighting,, equipment. P210: Keep away from heat, sparks, open flames or hot surfaces No smoking. P280: Wear protective gloves, protective clothing, eye protection, face protection. P273: Avoid release to the environment.
Response	: P370+P378: In case of fire: Use for extinction.
Disposal considerations	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Contains	: Red phosphorus
2.3. Other hazards	



MATERIAL SAFETY DATA SHEET (MSDS) PHOSPHOURS RED (FOR SYNTHESIS)

2. Hazards identification -DSD (continued)

Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients					
Substance / Preparation	: Red phosph	norus			
	EC No :231 Annex No : Substance.	015-002-00-7			
Substance name Red phosphorus	ContentsCAS100 %7723		Annex No 015-002-00-7	REACH Ref.	Classification F; R11 R16 R52-53
Aquatic Chronic 3_H412 Contains no other components or impurities which will influence the classification of the product.					
4. First aid measures					
4.1. Description of first aid m	easures				
Inhalation	: Assure fres	h air breathing.	Allow the victin	n to rest.	
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.				
Eye contact		: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.			
Ingestion	: Obtain eme	rgency medical	attention. Do N	IOT induce vo	miting. Rinse mouth.
4.2. Most important symptoms and effects, both acute and delayed					
Symptoms relating to use	use.		-		ipated conditions of normal cipated conditions of normal
	use.				
4.3. Indication of any immediate medical attention and special treatment needed					
General information		anything by mou vice (show the la			n. If you feel unwell, seek
5. Fire-fighting measures					

5. Fire-fighting measures

5.1. Extinguishing media

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MATERIAL SAFETY DATA SHEET (MSDS) PHOSPHOURS RED (FOR SYNTHESIS)

5. Fire-fighting measures (continued)		
Suitable extinguishing media Unsuitable extinguishing media Surrounding fires	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream. : Use water spray or fog for cooling exposed containers.	
5.2. Special hazards arising from the substance or mixture		
Flammable class Hazardous combustion products	: Flammable solid. : Under fire conditions, hazardous fumes will be present.	
5.3. Advice for fire-fighters		
Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.	
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.	

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.	
Technical measures	: Use special care to avoid static electric charges.	
Special precautions	: Remove ignition sources. No naked lights. No smoking.	
For non-emergency personnel	: Evacuate unnecessary personnel.	
6.2. Environmental precautions Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.	
6.3. Methods and material for containment and cleaning up		
Clean up methods	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.	

6.4. Reference to other sections

See section 8. Exposure controls/personal protection



MATERIAL SAFETY DATA SHEET (MSDS) PHOSPHOURS RED (FOR SYNTHESIS)

. Handling and storage	
7.1. Precautions for safe handling	
Handling	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Handle empty containers with care because residual vapours are flammable.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting,, equipment.
Special precautions	: No naked lights. No smoking.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. Keep in fireproof place. Ground/bond container and receiving equipment.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.
<u>7.3. Specific end use(s)</u>	
Specific end use(s)	: None.

8. Exposure controls/personal protection

8.1. Exposure controls	
Personal protection	: Avoid all unnecessary exposure.
 Respiratory protection 	: Wear approved mask.
 Hand protection 	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Others	: When using, do not eat, drink or smoke.
8.2. Control parameters	
Occupational Exposure Limits	: No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Colour	: Red powder

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MATERIAL SAFETY DATA SHEET (MSDS) PHOSPHOURS RED (FOR SYNTHESIS)

9. Physical and chemical properties (continued)

Odour	: N/A
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 280 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 2600C
Flammability (solid, gas)	: N/A
	Flammable solid.
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 0.04 hPa at 20 °C
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm3]	: 2,34
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Insoluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A
9.2. Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.
JF FF FF	

10. Stability and reactivity

10.1. Reactivity

Reactivity

: Not established.

10.2. Chemical stability

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MATERIAL SAFETY DATA SHEET (MSDS) PHOSPHOURS RED (FOR SYNTHESIS)

10. Stability and reactivity (continued)		
Chemical stability	: Stable under recommended storage conditions.	
10.3. Possibility of hazardous reactions		
Hazardous reactions	: Not established.	
10.4. Conditions to avoid		
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.	
10.5. Incompatible materials		
Materials to avoid	: Strong acids. Strong bases.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.	

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: Based on available data, the classification criteria are not met.
Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Based on available data, the classification criteria are not met.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity



MATERIAL SAFETY DATA SHEET (MSDS) PHOSPHOURS RED (FOR SYNTHESIS)

12. Ecological information (continu	ed)	
Toxicity information	: Harmful to aquatic life with long lasting effects.	
<u> 12.2. Persistence - degradability</u>		
Persistence - degradability	: May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
Bioaccumulative potential	: Not established.	
<u>12.4. Mobility in soil</u>		
Mobility in soil	: Not established.	
12.5. Results of PBT and vPvB assessment		
Results of PBT and vPvB assessme	nt : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.	
12.6. Other adverse effects		
Environmental precautions	: Avoid release to the environment.	
13. Disposal considerations		
13.1. Waste treatment methods		
General	 Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection 	
Special precautions	point, in accordance with local, regional, national and/or international regulation. : Handle empty containers with care because residual vapours are flammable.	
14. Transport information		
<u>14.1. Land transport (ADR-RID)</u>		
Proper shipping name UN N° H.I. nr	: PHOSPHORUS, AMORPHOUS : 1338 : 40	

: 4.1

ADR - Class

Labelling - Transport

: 4.1 : Flammable solids, self-reactive substances and desensitized explosives.

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14. Transport information (continued)



- ADR Classification code ADR - Group ADR - Packing instructions ADR - Limited Quantity
- ADR Tunnel code
- : III : P410 R001
- P410 R00
- : 5 KG

: F3

: E : Passage forbidden through tunnels of category E.



14.2. Sea transport (IMDG) [English only]

Proper shipping name UN N° IMO-IMDG - Class or division IMO-IMDG - Packing group IMO- IMDG - Packing instructions IMO-IMDG - Limited quantities IMO-IMDG - Marine pollution	 PHOSPHORUS, AMORPHOUS 1338 4.1 : Flammable solids, self-reactive substances and desensitized explosives. III P410 5 kg No
EMS-Nr	: F-A S-G

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: PHOSPHORUS, AMORPHOUS
UN N°	: 1338
IATA - Class or division	: 4.1 : Flammable solids, self-reactive substances and desensitized explosives.
IATA - Packing group	: 111
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing	: 446
instruction	
- Passenger and Cargo - Maximum Quantity/Packing	: 25 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 449
- Cargo only - Maximum Quantity/	: 100 kg
Packing	
IATA - Limited Quantites	: 10 kg

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MATERIAL SAFETY DATA SHEET (MSDS)

PHOSPHOURS RED (FOR SYNTHESIS)

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its
 comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of
 the material by a properly trained person using this product.

End of document

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