

Camlab Limited – Material Safety Data Sheet

1. Identification

Product Code CC/1324-CH

Product Name PHOSPHORUS RED

Molecular Formula P =30.97

CAS Number 7723-14-0

Supplier: CAMLAB LIMITED



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2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Phosphorous red	7723-14-0	231-768-7	> 97.0%	F N : R11,R16,R50	N/A

3. Hazards Identification



Highly flammable. Explosive when mixed with oxidising substances. Very toxic to aquatic organisms.

4. First Aid Measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.
Inhalation	Remove from exposure. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.
Ingestion	Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

5. Fire Fighting Measures

Hazards	Reacts explosively with oxidising agents and metals such as aluminium and magnesium. Avoid sparks, static discharge and other sources of friction. Can form explosive dust clouds. Can spontaneously re-ignite on drying out after a fire. Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.
Extinguishing Media	Wet sand, low pressure water spray.
Unsuitable Media	Nothing specified.

6. Accidental Release Measures

Personal Protection	Use approved personal protective equipment. Avoid breathing dust-wear respiratory protective equipment. Ensure no sources of ignition. Avoid raising dust clouds- explosion risk.
Environmental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Cover spill with wet earth or sand and transfer to steel container for disposal. Wash area down with copious amounts of water.
Minor Spillage	Cover spill with wet earth or sand and transfer to steel container for disposal. Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions	Open containers under Local Exhaust Ventilation to avoid breathing toxic phosphine vapour. Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.
Storage Conditions	Well ventilated, cool, dry storage . Keep well separated from oxidising agents.

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits.
Hands	Wear gloves.
Eyes	Use chemical full face shield.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	Dark red powder.
Odour	No specific odour.
pH	5 (10% suspension)
Boiling point	Not available
Melting point	390.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	260.0 °C
Explosive properties	Not explosive as a single substance.
Oxidising Properties	No.
Vapour Pressure	Negligible
Relative Density	2.1600
Water Solubility	Insoluble in water.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Avoid shock and friction.
Materials to Avoid	Reacts explosively with oxidising agents and metals such as aluminium and magnesium. Reacts very slowly with water to form toxic phosphine.
Hazardous Decomposition Products	Thermal decomposition yields extremely irritant phosphorous pentoxide.

11. Toxicological Information

Eyes	Unlikely to be irritating to the eyes.
Skin	Unlikely to be irritating to the skin.
LD50 Skin	Not available
Ingest	Low order of acute toxicity.
LD50 Ingest	Rat 10000mg/Kg
Inhalation	Inhalation of dust may produce irritation of the eyes, nose, throat and respiratory tract.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	No information is available.

12. Ecological

Very toxic to aquatic organisms.

13. Disposal Considerations

Disposal Methods	Small amounts may be destroyed by burning – beware of dense white fumes evolved. Neutralise residues with alkali and wash to drain.
Contaminated Packaging	Use a licensed waste disposer.

14. Transport Information

Proper Shipping Name	Phosphorous, Amorphous
UN Number	1338
UN Classification	4.1 Flammable solid
Subsidiary Risk	None
Flash Point	Not available
Packing Group	III
Transport Category	3
Marine pollutant	No
ADR Hazard ID	40



15. Regulatory Information

Labelling	Highly Flammable, Dangerous for the Environment.
Classification	

Label Symbols

F



N



Risk & safety Phrases	Highly flammable. Explosive when mixed with oxidising substances. Very toxic to aquatic organisms. Keep out of reach of children. Keep container tightly closed. In case of fire use dry powder extinguisher – Never use water. Avoid release to the environment, refer to special instructions/safety data sheet.
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EEC Number	231-768-7
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16. Other Information

Document Information	This document has been prepared in accordance with directive 88/379/EEC.
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The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

16. Other Information (continued)

Revision Date: 16/08/06.

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