

MATERIAL SAFETY DATA SHEET**Product Name:** Phosphorus, red**CAS No.:** 7723-14-0**Version:** 0**1. Identification**

Product Code : 90280,90490
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2. Hazards Identification**Hazard classification**

Flammable solids : Category 1
Chronic aquatic toxicity : Category 3

Label elements**Hazard symbol**

Signal word : Danger
Hazard statement : Flammable solid.
Harmful to aquatic life with long lasting effects.
Precautionary statement : Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid release to the environment.
Supplemental Hazard Statements : None.

3. Composition/information on ingredients

Ingredient	CAS No	PERCENT
Phosphorus, red	7723-14-0	NLT 98.0%

4. First Aid Measures**Description of first aid measures**

General advice : Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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- Skin contact** : Wash off with soap and plenty of water. Consult a physician.
- Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Swallowed** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed** : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed** : No data available
- Treatment**

5. Fire fighting measures

- Extinguishing media**
- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture** : Oxides of phosphorus
- Advice for firefighters** : Wear self contained breathing apparatus for firefighting if necessary
- Further information** : No data available

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
- 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.
- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Reference to other sections** : For disposal see section 13.

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- 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.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****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**

: 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 Hand 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

: Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : Reddish brown to dark red powder.
- Odor** : No data available
- pH** : ca.3 at 10 g/l at 37 °C
- Melting point/freezing point** : 280 °C - lit.
- Initial boiling point and boiling range** : No data available
- Flash Point** : No data available
- Vapor pressure** : 0.04 h Pa at 21 °C
- Vapor density** : No data available

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Relative density : 2.34 g/mL at 25 °C
Solubility in water : No data available
Solubility (other) : No data available
Formula : P
Molecular Weight : 30.97 g/mol

10. Stability and Reactivity

Reactivity : No data available
Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : No data available
Conditions to avoid : Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials : Sulphur compounds, Oxidizing agents, Copper, Oxygen, Bases
Hazardous decomposition products : No data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity : LD50 Oral - rat - female - > 15.000 mg/kg
Skin corrosion/irritation : No skin irritation
Serious eye damage/eye irritation : No eye irritation
Respiratory or skin sensitization : Does not cause skin sensitisation.
Germ cell mutagenicity : No data available
Carcinogenicity : 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
Signs and Symptoms of Exposure : No data available

MATERIAL SAFETY DATA SHEET**Product Name:** Phosphorus, red**CAS No.:** 7723-14-0**Version:** 0**12. Ecological Information**

- Toxicity** : Toxicity to fish static test LC50 - Danio rerio (zebra fish) - 33,2 mg/l - 96 h (OECD Test Guideline 203)
- Persistence and degradability** : No data available
- Bioaccumulative potential** : No data available
- Mobility in soil** : No data available.
- Other adverse effects** : Harmful to aquatic life with long lasting effects.

13. Disposal consideration

- Disposal instructions** : 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.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	1338	PHOSPHORUS	4.1	III	YES
IMDG	1338	PHOSPHORUS	4.1	III	YES
IATA	1338	PHOSPHORUS	4.1	III	YES

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date** :01/08/2014**Version** : 0

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