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**MATERIAL SAFETY DATA SHEET**

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: D-Erythrose 4-phosphate sodium salt

Sarchem Laboratories, Inc.  
5012 Industrial Road  
Farmingdale, NJ 07727Emergency Phone No: 800-255-3924  
International: +1-813-248-0585  
ChemTel Inc

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS</u>	<u>EC:NO</u>	<u>Molecular Weight</u>
D-Erythrose 4-phosphate sodium salt	103302-15-4		222.07 g/mol

Synonyms: 4-Phospho-D-erythrosesodium salt  
Formula: C<sub>4</sub>H<sub>8</sub>NaO<sub>7</sub>P

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**3. HAZARDS INFORMATION:****Emergency Overview****OSHA Hazards**

No known OSHA hazards

Not a dangerous substance according to GH

**HMIS Classification**

<b>Health Hazard:</b>	0
<b>Flammability:</b>	0
<b>Physical hazards:</b>	0

**NFPA Rating**

<b>Health Hazard:</b>	0
<b>Flammability:</b>	0
<b>Physical hazards:</b>	0

**Potential Health Effects:**

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

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#### 4. FIRST AID MEASURES:

**General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangers area.

**If inhaled**

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

**In case of skin contact**

Take off contaminated clothing and shoes immediately. 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. Rinse mouth with water. Consult a physician.

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#### 5. FIRE FIGHTING MEASURES

**Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Oxides of phosphorus, Sodium oxides

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#### 6. Accidental Release Measures

**Personal precautions**

Avoid dust formation. Avoid breathing vapors, mist or gas.

**Environmental precautions**

Do not let product enter drains

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**Methods for cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

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**7. Handling and Storage**

**Handling**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

Recommended storage temperature: -20 °C

Keep in a dry place.

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**8. Exposure Controls / Personal Protection**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**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.

**Eye 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 and body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance**

Form	powder
Color	beige

**Safety data**

pH	no data available
Melting Point	no data available
Boiling Point	no data available
Flash Point	no data available
Ignition temperature	no data available
Lower exposure limit	no data available
Upper exposure limit	no data available
Vapor pressure	no data available
Water solubility	no data available

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**10. Stability and Reactivity**

**Storage stability**

Stable under recommended storage conditions.

**Conditions to avoid**

Avoid moisture.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Oxides of phosphorus, Sodium oxides

Other decomposition products - no data available

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**11. Toxicological Information**

**Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

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**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**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.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Potential health effects**

Inhalation Toxic if inhaled. May cause respiratory tract irritation.

Ingestion Toxic if swallowed.

Skin Toxic if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

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**12. Ecological Information**

**Elimination information (persistence and degradability)**

No data available

**Ecotoxicity effects**

No data available

**Further information on ecology**

No data available

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**13. Disposal Considerations**

**Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

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**14. Transportation Information**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. Regulatory Information**

**OSHA Hazards**

Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

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**16. OTHER INFORMATION:**

**Further Information**

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