



*****Section 1 – Identification*****

Product Identifier: Ferrophosphorus
Chemical Family: Alloy
Recommended Use: Manufacture of iron and steel
Restriction on Use: None identified

Manufacturer Information

The David J. Joseph Company
300 Pike Street
Cincinnati, OH 45202

Non-Emergency Contact: Safety Department
Non-Emergency Phone: 513-419-6200
Emergency Contact: DJJ
Emergency Phone: 513-562-1699

*****Section 2 – Hazard(s) Identification**

Classification

Not classified as hazardous material.

GHS Label Elements

Symbol(s)

N/A

Signal Word

N/A

Hazards Statement(s)

N/A

Precautionary Statements

N/A

Hazard(s) Not Otherwise Classified

N/A

*****Section 3 – Composition / Information on Ingredients*****

CAS	Component	Percent
8049-19-2	Ferrophosphorus	99%

*****Section 4 – First Aid Measures*****

Inhalation

Remove from area of exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin Contact**

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye Contact

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion

Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs, give further water. Seek medical advice.

*****Section 5 – Fire Fighting Measures*******Extinguishing Media**

Extinguishing media appropriate to surrounding fire conditions.

Unsuitable Extinguishing Media

None identified.

Specific Hazards Arising from the Chemical

Non-combustible material.

Special Protective Equipment and Precautions for Firefighters

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

*****Section 6 – Accidental Release Measures*******Personal Precautions, Protective Equipment and Emergency Procedures**

Wear protective equipment to prevent skin and eye contact and breathing in dust. Work up wind or increase ventilation.

Methods and Materials for Containment and Cleaning Up

Cover with damp absorbent (inert material, sand or soil). Sweep up or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal.

*****Section 7 – Handling and Storage*******Precautions for Safe Handling**

Avoid skin and eye contact and breathing in dust. Avoid handling which leads to dust formation. May form flammable dust clouds in air.

Conditions for Safe Storage

Store in a cool, dry, well ventilated place and out of direct sunlight. Protect from moisture. Store away from incompatible materials described in section 10. Keep containers closed when not in use-check regularly for spills.

Incompatibilities

Acids and water.

*****Section 8 – Exposure Controls / Personal Protection*******Exposure Limits**

No value assigned for this specific material.

OSHA PEL Limit for particulates not otherwise regulated: TWA 15 mg/m³.

Appropriate Engineering controls

Ensure ventilation is adequate to maintain air concentrations below exposure limit. Avoid generating and breathing in dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

Individual Protection Measures**Eyes/Face Protection**

Wear safety glasses.

Skin Protection

Wear overalls and impervious gloves.

Respiration

If dust generation is a risk, wear a dust mask or respirator.

General Information

After handling, wash hands before eating drinking or smoking. Wash contaminated clothing before storage or reuse.

*****Section 9 – Physical and Chemical Properties*****

Appearance: Metallic grey solid

Physical state: Solid

Melting Point: 1050-1100 C

Flash Point: N/A

UFL: N/A

Vapor Pressure: Not available

Specific Gravity: N/A

Auto Ignition: N/A

pH: N/A

Boiling Point: N/A

OSHA Flammability Class: N/A

LFL: N/A

Vapor Density: N/A

Solubility (H20): Insoluble

*****Section 10 – Chemical Stability & Reactivity*******Reactivity**

Reacts with water and acids.

Chemical Stability

Material is stable at room temperatures.

Possibility of Hazardous Reaction

Reacts with acids to form a corrosive solution with the liberation of phosphine gas. May react with cement powder at 65 C to generate hydrogen. Reacts with salt air to release phosphine. May react with water to emit phosphine, arsine and hydrogen. Finely divided dusts in air may ignite if size is < 50 micron and concentration is > 1500 mg/L. Will not explode.

Conditions to Avoid

Avoid dust generation.

Incompatible Materials

Incompatible with acids and water.



Hazardous Decomposition Products

Oxides of phosphorus.

Section 11 – Toxicological Information

Acute Toxicity

There is no LD50 data available for the product.

Acute dose Effects

Ingestion

No adverse effects expected, however large amounts may cause nausea and vomiting.

Eye Contact

May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Skin Contact

Contact with skin may result in irritation.

Inhalation

Breathing in dust may result in respiratory irritation.

Chronic Effects

No information available for this product.

Section 12 – Ecological Information

Ecotoxicity

Avoid contaminating waterways.

Persistence & Degradability

No information available.

Bioaccumulation

No evidence of bioaccumulation.

Mobility

No information available.

Section 13 – Disposal Considerations

Disposal Methods

Refer to waste management authority. Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 – Transportation Information

US DOT Information

Not classified as a dangerous good.



*****Section 15 – Regulatory Information*****

U.S. Federal Regulations

No additional regulations.

*****Section 16 – Other Information*****

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

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