

# MATERIAL SAFETY DATA SHEET

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## MSDS Identification:

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

● **Key:** 62402

● **Name:** Prussian blue

### Catalog Numbers:

AC215210000, AC215210250

### Synonyms:

● C.I. 77510 ; Ferric ferrocyanide ; Pigment Blue 27

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS # Chemical Name % EINECS #

14038-43 -8 PRUSSIAN BLUE 237-875-5

**Hazard Symbols:** None Listed.

**Risk Phrases:** None Listed.

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**Appearance:** purple solid. Caution! The toxicological properties of this material have not been fully investigated. May cause

eye and skin irritation. May cause respiratory and digestive tract irritation.

**Target Organs:** None known.

#### POTENTIAL HEALTH EFFECTS

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

**Inhalation:** May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

**Chronic:** Not available. None

### SECTION 4 - FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** Remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.

#### SECTION 5 - FIRE FIGHTING MEASURES

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH

(approved or equivalent), and full protective gear. Substance is noncombustible.

**Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire.

**Autoignition Temperature:** Not available.

**Flash Point:** Not available.

**Explosion Limits, lower:** Not available.

**Explosion Limits, upper:** Not available.

**NFPA Rating:** Not published.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.

#### SECTION 7 - HANDLING AND STORAGE

**Handling:** Wash thoroughly after handling. Use with adequate ventilation.

Minimize dust generation and accumulation. Avoid

breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

#### SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

#### EXPOSURE LIMITS

**OSHA Vacated PELs:**

**PRUSSIAN BLUE:** 1 mg/m<sup>3</sup> TWA (as Fe) (listed under \*\* no name \*\*)

#### PERSONAL PROTECTIVE EQUIPMENT

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid

**Color:** purple

**Odor:** Not available.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

Chemical Name ACGIH NIOSH OSHA - Final PELs

PRUSSIAN BLUE 1 mg/m<sup>3</sup> TWA (asFe)

(listed under \*\* no name\*\*).

1 mg/m<sup>3</sup> TWA (asFe)

(listed under \*\* no name\*\*). none listed

**Freezing/Melting Point:** Not available.

**Decomposition Temperature:**

**Solubility in water:** practically insoluble in water

**Specific Gravity/Density:**

**Molecular Formula:** C<sub>18</sub>Fe<sub>7</sub>N<sub>18</sub>

**Molecular Weight:** 859.25

#### SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials.

**Incompatibilities with Other Materials:** Strong acids - strong oxidizing agents, reducing agents, bases.

**Hazardous Decomposition Products:** Hydrogen cyanide, nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

#### SECTION 11 - TOXICOLOGICAL INFORMATION

**RTECS#:**

■ CAS# 14038-43-8: LJ8200000

**LD50/LC50:**

Not available.

**Carcinogenicity:**

**PRUSSIAN BLUE -**

○ Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:**

No data available.

**Teratogenicity:**

No data available.

**Reproductive Effects:**

No data available.

**Neurotoxicity:**

No data available.

**Mutagenicity:**

No data available.

**Other Studies:**

No data available.

#### SECTION 12 - ECOLOGICAL INFORMATION

#### SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is

classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

#### SECTION 14 - TRANSPORT INFORMATION

##### **US DOT**

- No information available

##### **Canadian TDG**

- No information available.

#### SECTION 15 - REGULATORY INFORMATION

##### **US FEDERAL**

##### **TSCA**

- CAS# 14038-43-8 is listed on the TSCA inventory.

##### **Health & Safety Reporting List**

- None of the chemicals are on the Health & Safety Reporting List.

##### **Chemical Test Rules**

- None of the chemicals in this product are under a Chemical Test Rule.

##### **Section 12b**

- None of the chemicals are listed under TSCA Section 12b.

##### **TSCA Significant New Use Rule**

- None of the chemicals in this material have a SNUR under TSCA.

##### **SARA**

##### **CERCLA Hazardous Substances and corresponding RQs**

- None of the chemicals in this material have an RQ.

##### **SARA Section 302 Extremely Hazardous Substances**

- None of the chemicals in this product have a TPQ.

##### **Section 313**

- No chemicals are reportable under Section 313.

##### **Clean Air Act:**

- This material does not contain any hazardous air pollutants.
- This material does not contain any Class 1 Ozone depleters.
- This material does not contain any Class 2 Ozone depleters.

##### **Clean Water Act:**

- None of the chemicals in this product are listed as Hazardous Substances under the CWA.
- None of the chemicals in this product are listed as Priority Pollutants under the CWA.
- None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

##### **OSHA:**

- None of the chemicals in this product are considered highly hazardous by OSHA.

##### **STATE**

PRUSSIAN BLUE can be found on the following state right to know lists:

California, (listed as \*\* no name \*\*),  
Pennsylvania, (listed as \*\* no name \*\*), Minnesota, (listed as \*\* no name \*\*).  
California No Significant Risk Level: None of the chemicals in this product are listed.

### **European/International Regulations**

#### **European Labeling in Accordance with EC Directives**

- Hazard Symbols: Not available.
- Risk Phrases:
- Safety Phrases:
- S 24/25 Avoid contact with skin and eyes.

#### **WGK (Water Danger/Protection)**

- CAS# 14038-43-8: 0

#### **United Kingdom Occupational Exposure Limits**

- CAS# 14038-43-8: OES-United Kingdom, TWA (listed as \*\* undefined \*\*): 1 mg/m<sup>3</sup> TWA (as Fe)
- CAS# 14038-43-8: OES-United Kingdom, STEL (listed as \*\* undefined \*\*): 2 mg/m<sup>3</sup> STEL (as Fe)

#### **United Kingdom Maximum Exposure Limits**

##### **Canada**

- CAS# 14038-43-8 is listed on Canada's DSL List.
- WHMIS: Not available.
- CAS# 14038-43-8 is not listed on Canada's Ingredient Disclosure List.

#### **Exposure Limits**

- CAS# 14038-43-8: Not available.

#### **SECTION 16 - ADDITIONAL INFORMATION**

**MSDS Creation Date:** 9/02/2004, **Revision #2 Date:** 3/18/2005

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