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# SAFETY DATA SHEET

Revision Date 03-Sep-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Nuclear Fast Red, Powder  
**Product Code** 7709  
**CAS No.** 6409-77-4  
**Recommended Use** For laboratory, scientific, R&D or manufacturing use.  
**Company** E K Industries, Inc.  
1403 Herkimer St.  
Joliet, IL 60432  
Tel. (800) 283-4244  
**Emergency Telephone** Call CHEMTREC 1-800-424-9300 (EKI CCN 7453)

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |             |
|-----------------------------------|-------------|
| Skin corrosion/irritation         | Category 2  |
| Serious eye damage/eye irritation | Category 2A |

### Label elements

#### **Signal word**

Warning

#### **Hazard statements**

Causes skin irritation. Causes serious eye irritation.



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

#### **Precautionary Statements - Storage**

Store in accordance with local regulations.

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name    | CAS No.   | Weight-% |
|------------------|-----------|----------|
| Nuclear Fast Red | 6409-77-4 | ~90      |

### 4. FIRST AID MEASURES

#### Description of first aid measures

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Flush eyes with plenty of water, removing contact lenses if present. Get medical attention if irritation develops.      |
| <b>Skin contact</b> | Wash thoroughly with soap and water while removing contaminated garments. Get medical attention if irritation develops. |
| <b>Inhalation</b>   | Remove to fresh air. Get medical attention for any breathing difficulty.  |
| <b>Ingestion</b>    | Rinse mouth and drink several glasses of water. Contact a physician or poison control center if symptoms develop.       |

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Causes skin and eye irritation. If inhaled, may cause breathing difficulties.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Hazardous combustion products

Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides. Sodium oxides.

#### Protective equipment and precautions for firefighters

Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

**NFPA**                      **Health hazards** 2                      **Flammability** 0                      **Instability** 0                      **Physical and Chemical Properties** -

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. |
| <b>Environmental precautions</b> | Prevent entry into waterways, sewers, basements or confined areas.  |

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling** Use personal protective equipment as required  
Handle in accordance with good industrial hygiene and safety practice.

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

### Appropriate engineering controls

**Engineering Controls** Emergency showers, eyewash stations, ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                       |                          |
|---------------------------------------|--------------------------|
| <b>Physical state</b>                 | Solid                    |
| <b>Appearance</b>                     | Dark red powder          |
| <b>Odor</b>                           | Odorless                 |
| <b>Odor threshold</b>                 | No information available |
| <b>pH</b>                             | No information available |
| <b>Melting point / freezing point</b> | No information available |
| <b>Boiling point / boiling range</b>  | No information available |
| <b>Flash point</b>                    | No information available |
| <b>Evaporation rate</b>               | No information available |
| <b>Flammability (solid, gas)</b>      | No information available |
| <b>Flammability Limit in Air</b>      |                          |
| <b>Upper flammability limit:</b>      | No information available |
| <b>Lower flammability limit:</b>      | No information available |
| <b>Vapor pressure</b>                 | No information available |
| <b>Vapor density</b>                  | No information available |
| <b>Relative density</b>               | No information available |
| <b>Water solubility</b>               | No information available |
| <b>Solubility in other solvents</b>   | No information available |
| <b>Partition coefficient</b>          | No information available |
| <b>Autoignition temperature</b>       | No information available |

**Decomposition temperature** No information available  
**Kinematic viscosity** No information available

## 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions.  
**Possibility of Hazardous Reactions** None under normal processing.  
**Conditions to avoid** Extremes of temperature and direct sunlight.  
**Incompatible materials** Strong oxidizing agents.  
**Hazardous Decomposition Products** Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides. Sodium oxide. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.  
**Eye contact** Irritating to eyes.  
**Skin contact** Irritating to skin.  
**Ingestion** No data available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** Irritating to eyes, respiratory system and skin.  
**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** This chemical does not contain any carcinogens or potential carcinogens as listed by ACGIH, OSHA, IARC or NTP

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No information available

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging**

Do not reuse container. Emptied containers may contain residue. Continue to follow label warnings after container is emptied.

## 14. TRANSPORT INFORMATION

Transportation information is provided as a general reference only and may not be applicable in all situations. This information applies to non-bulk shipments only. Per 49 CFR §173.22, it is the shipper's responsibility to ensure that all materials are properly packaged, classified and labeled prior to shipment.

**DOT** Not regulated

**IATA** Not regulated

## 15. REGULATORY INFORMATION

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### **U.S. State Right-to-Know Regulations**

This chemical does not contain any substances regulated by state right-to-know regulations

## 16. OTHER INFORMATION

#### **Prepared By**

EKI Regulatory Affairs (Email: reg@eki-chem.com)

#### **Revision Date**

03-Sep-2015

#### **Disclaimer**

E K Industries, Inc. makes no representation as to the comprehensiveness or accuracy of this document. Individuals

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**End of Safety Data Sheet**