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CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

### Section I - Product Identification

An solution of nuclear fast red and aluminum sulfate in water.

### Section II - Hazards Identification

Overview: May be harmful if swallowed. May be irritating to skin eyes and respiratory tract.

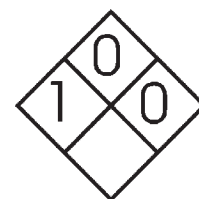
#### Safety Ratings

Health: Slight Flammability: None Reactivity: None Contact: Slight  
Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: General storage

NFPA Ratings

Health = 1 Flammability = 0 Reactivity = 0



#### Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other aluminum compounds.

*Inhalation:* May be irritating

*Ingestion:* While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc. Death has resulted from ingesting large amounts of alum.

*Skin contact:* Not normally a problem.

*Eye contact:* May be irritating.

*Chronic Exposure:* Unknown.

*Aggravation of preexisting conditions:* Unknown

### Section III - Composition/Information on Components

Ingredients	CAS#	OSHA PeI ACGIH TLV		Other Limits	%
Nuclear fast red	6409-77-4	—	—		0.1% w/v
Aluminum sulfate	7784-31-8	2 mg/m <sup>3</sup> (Al) TWA	2 mg/m <sup>3</sup> (Al) TWA		5% w/v

### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* Do not induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice if irritation develops.

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## Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Fire:* Not normally a fire Hazard.

*Explosion:* Not Normally an explosion hazards.

*Fire Extinguishing Media:* Any means suitable for surrounding fire.

*Special information:* Pyrolysis will release corrosive oxides.

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## Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

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## Section VII - Handling and Storage

Store in a closed container, protected from freezing.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required.

*Skin protection:* Protective gloves are not required but recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 100 °C

*Vapor pressure (mm Hg):* 18 @ 20 °C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* A clear, dark red or purple liquid.

*Density:* About 1.02 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Excessive cold/heat and light.

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## Section XI - Toxicological Information

None relating to normal exposure.

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
Nuclear fast red	no	no	none
Aluminum sulfate	no	no	none

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## Section XII - Ecological Information

Environmental Fate: Biodegradable

Environmental Toxicity: None

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## Section XIII - Disposal Considerations

Usually not restricted but local governments can restrict the amounts of dyes and salts that may be flushed down the drain. Insure compliance with all government regulation

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**Section XIV - Transportation information**

Not regulated.

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**Section XV - Regulatory Information****Chemical Inventory Status**

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<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Nuclear fast red	Yes	<u>Yes</u>
Aluminum sulfate	Yes	<u>Yes</u>

**Federal, State and International Regulations**

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<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	<u>Ca. Prop 65</u>
Nuclear fast red	No	No	No	No	No	No	No
Aluminum sulfate	No	No	No	No	No	No	NO

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes, Chronic: No

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**Section XVI - Other Information**

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Revision Date: Jan. 3, 2018