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Section I - Product Identification

Product: An aqueous solution of aluminum sulfate and nuclear fast red.

Intended Uses: Normally used as a nuclear stain.

Uses advised against: For laboratory use only. Not for consumer use.

Manufacturer Identification

Medical Chemical Corp.
19430 Van Ness Ave.
Torrance, CA 90501

Customer Service: Phone (310)787-6800
Email. Christinaavena@med-chem.com
FAX (310)787-4464

Emergency Telephone Number

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 II - Hazard Identification

This item is not considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). May be harmful if swallowed. May cause skin irritation.

Serious eye damage/eye irritation: Category 2A (H319). Causes serious eye irritation.

Acute toxicity (Oral): Category 4 (H302). May be harmful if swallowed.

Acute toxicity (Dermal): Category 5 (H313). May be harmful in contact with skin.

Sensitization (Skin): Category 1 (H317). May cause an allergic skin reaction.

Signal word: Warning

Hazard statements

The toxicology of this compound have not been completely examined. It is Irritating to the eye, skin and respiratory system.

Precautionary statements

- P102 Keep out of reach of children.
- P220 Keep away from clothing and other combustible materials.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P281 Use personal protective equipment as required.

Safety Ratings

Health: Slightly Hazardous *Flammability:* None *Reactivity:* None *Contact:* Slight
Recommended safety equipment: Not normally required.

NFPA Ratings

Health = 1 Flammability = 0 Reactivity = 0

Potential Health Effects

Inhalation: May be Irritating to respiratory tract.

Ingestion: While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc

Skin contact: Causes skin irritation or aggravation of existing dermatitis.

Eye contact: Causes serious eye irritation.

Chronic Exposure: Unknown.

Aggravation of preexisting conditions: Unknown.

Section III - Composition/Information on Components

| Ingredient | CAS# | EC/List No. | % w/w |
|------------------|-----------|-------------|-------|
| Aluminum sulfate | 7784-31-8 | 616-524-3 | 5% |
| Nuclear fast red | 6409-77-4 | 229-088-0 | 0.1% |

Section IV - First Aid Measures

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

Ingestion: Rinse mouth with water but do not induce vomiting. Get medical advice.

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.

Section V - Fire Fighting Measures

Flash point: Not applicable.

Flammable Limits: Not applicable.

Fire: Not normally a fire hazard. May cause fire on contact with organic material.

Explosion: Not normally an explosion hazard.

Fire Extinguishing Media: Any means suitable for surrounding fire.

Special information:

Section VI - Accidental Release Measures

Absorb with a suitable absorbent and store in a suitable container for disposal.

Section VII - Handling and Storage

P403+P233+P102; Store in a well-ventilated place. Keep container tightly closed. Keep out of reach of children.

Section VIII - Exposure Control/Personal Protection

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------|-------------------------|-------------------------|---------------|
| Aluminum sulfate | 2 mg/m ³ TWA | 2 mg/m ³ TWA | Not regulated |
| Nuclear fast red | Not regulated | Not regulated | Not regulated |

Legend

ACGIH: American Conference of Governmental Industrial Hygienists.

OSHA: Occupational Safety and Health Administration.

NIOSH: National Institute for Occupational Safety and Health.

IDLH: Immediately dangerous to life or health.

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. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are required as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are required.

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, odorless dark red solution.

Density: 1.03 g/ml

Evaporation Rate (water = 1): 1

Solubility: Miscible with water

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: The manufacturer is unaware of any.

Hazardous polymerization: Will not occur.

Incompatibilities: Nothing unusual.

Conditions to avoid: Excessive cold and heat.

Section XI - Toxicological Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------|----------------|-------------|-----------------|
| Aluminum sulfate | > 5 g/kg (rat) | No data | No data |
| Nuclear fast red | No data | No data | No data |

Cancer lists

| <i>Ingredient</i> | <i>Known Carcinogenicity?</i> | <i>NTP?</i> | <i>Anticipated?</i> | <i>IARC Category</i> |
|-------------------|-------------------------------|-------------|---------------------|----------------------|
| Aluminum sulfate | No | No | No | No |
| Nuclear fast red | No | No | No | No |

Section XII - Ecological Information

This product is expected to bioaccumulate. The product does not contain endocrine disrupters, persistent organic pollutants or ozone depleters.

Soil Mobility: Unknown

Environmental Fate: Biodegradable

Environmental Toxicity: Low

| Component | Freshwater Fish | Water Flea | Freshwater algae |
|------------------|--------------------|--------------------|---------------------|
| Aluminum sulfate | LC50 1.5 mg/l 96 h | EC50 6.6 mg/l 48 h | IC50 0.17 mg/l 72 h |
| Nuclear fast red | No data | No data | No data |

Section XIII - Disposal Considerations

Usually not restricted but local ordinances vary. Insure compliance with all government regulations

Section XIV - Transportation Information

Not regulated by DOT or IATA.

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

| <i>Ingredient</i> | <i>TSCA</i> | <i>EC</i> |
|-------------------|-------------|-----------|
| Aluminum sulfate | Yes | Yes |
| Nuclear fast red | Yes | Yes |

Federal and State Regulations

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

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

SARA 311/312: *Acute:* No, *Chronic:* No, *Fire:* No, *Pressure:* No

Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

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