Right to Know Hazardous Substance Fact Sheet

Emergency Responders Quick Reference

Common Name: **FERRIC AMMONIUM CITRATE**

Synonyms: Ammonium Ferric Citrate; Citric Acid, Ammonium Iron (3+) Salt
CAS No: 1185-57-5
Molecular Formula: $C_6H_{13}NFeO_{10}$
RTK Substance No: 0918
Description: Yellowish-brown to red or green powder with a faint *Ammonia*-like odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
1 - Health **0 - Fire** **0 - Reactivity** **DOT#:** UN 3077 **ERG Guide #:** 171 **Hazard Class:** 9 (Environmentally Hazardous Material)	Extinguish fire using an agent suitable for type of surrounding fire. **Ferric Ammonium Citrate** itself does not burn. POISONOUS GASES ARE PRODUCED IN FIRE, including *Nitrogen Oxides* and *Ammonia*. Use water spray to keep fire-exposed containers cool.	**Ferric Ammonium Citrate** is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE) and IODIDES. **Ferric Ammonium Citrate** may decompose on exposure to LIGHT and MOISTURE.

SPILL/LEAKS

Isolation Distance:

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Collect powdered material in the most convenient and safe manner and place into sealed containers for disposal.

For water spills neutralize with Agricultural Lime, crushed Limestone or Sodium Bicarbonate.

DO NOT wash into sewer.

Ferric Ammonium Citrate may be toxic to aquatic life.

PHYSICAL PROPERTIES

Odor Threshold:	*Ammonia*-like odor
Flash Point:	Noncombustible
Specific Gravity:	1.8 (water = 1)
Water Solubility:	Soluble
pH:	<7 in aqueous solution
Molecular Weight:	Varies

EXPOSURE LIMITS

No occupational exposure limits have been established for **Ferric Ammonium Citrate**.

The Protective Action Criteria values are:

PAC-1 = 5.4 mg/m^3
PAC-2 = 500 mg/m^3
PAC-3 = 500 mg/m^3

PROTECTIVE EQUIPMENT

Gloves:	Nitrile and Natural Rubber
Coveralls:	Tyvek®
Respirator:	>5 mg/m^3 - full facepiece APR with *High efficiency filters* >500 mg/m^3 - SCBA

HEALTH EFFECTS

Eyes:	Irritation
Skin:	Irritation
Inhalation:	Nose, throat and lung irritation with coughing, wheezing and shortness of breath

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

Remove contaminated clothing and wash contaminated skin with soap and water.

Begin artificial respiration if breathing has stopped and CPR if necessary.

Transfer promptly to a medical facility.