



MATERIAL SAFETY DATA SHEET



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Ammonium iron(III) citrate

Section 1: Product Identification

Product Name: Ammonium iron(III) citrate

Product Code: 330

CAS#: 1185-57-5

Chemical Formula: $C_6H_8O_7 \cdot Fe_3 \cdot NH_3$

Molecular Formula: 265.0

Section 2: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), H335

Other hazards - None

Section 3: Composition/Information on Ingredients

Name: Ammonium iron (III) citrate

Chemical Formula: $C_6H_8O_7 \cdot Fe_3 \cdot NH_3$

Molecular Formula: 265.0

Section 4: First Aid Measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Section 5: Fire and Explosion Data

Suitable extinguishing media

Special powder against metal fire Dry sand Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x), Iron oxides



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Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal precautions and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations.

Section 7: Handling and Storage

Precautions:

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store in original container. Do not store near combustible materials. Keep in a cool place away from acids. Keep in a cool place away from bases. Keep in a cool place away from oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

Physical state and appearance: Not available.

Odor: Not available.

Taste: Not available.

pH: Not available.



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Boiling Point: Not available.
Melting Point: Not available.
Critical Temperature: Not available.
Specific Gravity: Not available.
Vapor Pressure: Not applicable.
Vapor Density: Not available.
Volatility: Not available.
Odor Threshold: Not available.
Water/Oil Dist. Coeff.: Not available.
Ionicity (in Water): Not available.
Dispersion Properties: Not available
Solubility: Not available.

Section 10: Stability and Reactivity Data

Stability: Stable under recommended storage conditions.
Instability Temperature: Not available.
Conditions of Instability: Not data available.
Incompatibility with various substances: Strong oxidizing agents
Special Remarks on Reactivity: Not available.

Section 11: Toxicological Information.

Acute toxicity: No data available
Skin corrosion/irritation: Not available.
Serious eye damage/eye irritation: Not available.
Respiratory or skin sensitization: Not available.
Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity: Not available.
Specific target organ toxicity - single exposure: Not available.
Specific target organ toxicity - repeated exposure: Not available.
Aspiration hazard: Not available.

Section 12: Ecological Information

Toxicity to fish: LC0 - Fundulus heteroclitus - 200 mg/l - 7 d
Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

UN number:		
ADR/RID:	IMDG:	IATA:
UN proper shipping name		
ADR/RID: Not dangerous goods		
IMDG: Not dangerous goods		



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IATA: Not dangerous goods

Transport hazard class(es):

ADR/RID:

IMDG:

IATA:

Packaging group:

ADR/RID:

IMDG:

IATA:

Environmental hazards:

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Not available.

Chemical Safety Assessment: Not available.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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