



Ferric Ammonium Citrate Part B in the Cyanotype Set

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
GHS Product Identifier	Not applicable.
Chemical Name	Ferric Ammonium Citrate
Trade name	Ferric Ammonium Citrate - Part B in the Cyanotype Set
CAS No.	1185-57-5
EINECS No.	214-686-6
Product code	CHM1102, CHM2102, JCY1100, JCY1101
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	Creating cyanotype prints
Uses advised against	None.
1.3 Details of the supplier of the safety data sheet	
Company Identification	Rupert, Gibbon & Spider, Inc. 1147 Healdsburg Ave. Healdsburg, CA 95448 USA
Telephone	+1 (707) 433-9577
Fax	+1 (707) 433-4906
E-Mail (competent person)	service@jacquardproducts.com
Website	www.jacquardproducts.com
Distributor	OZ International 1088, rue Marcel Paul ZA des grands godets 94508 Champigny-sur-marne cedex France
Telephone	(+33) 01 45 16 78 18
1.4 Emergency telephone number	
Emergency Phone No.	ChemTel, Inc. - Contract #MIS9128344 - North America: 1-800-255-3924 - International: 1-813-248-0585

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Regulation (EC) No. 1272/2008 (CLP).	Not classified as dangerous for supply/use.
2.2 Label elements	
Hazard Symbol	None
Signal word(s)	None
Hazard statement(s)	None
Precautionary statement(s)	None
2.3 Other hazards	None



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Composition/information on ingredients	%W/W	EC No. CAS No. EC INDEX No. REACH Registration No.	According to Regulation (EC) No. 1272/2008 (CLP)
Ferric Ammonium Citrate	100	214-686-6 1185-57-5 None None	Not classified as dangerous for supply/use.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation	Move person to fresh air. If breathing is laboured, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If symptoms develop, obtain medical attention.
Eye Contact	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.
Ingestion	Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed None

4.3 Indication of the immediate medical attention and special treatment needed IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

-Suitable Extinguishing Media	Non-flammable / Non-combustible. As appropriate for surrounding fire.
-Unsuitable Extinguishing Media	None known.

5.2 Special hazards arising from the substance or mixture Decomposition products may include cyanide compounds.

5.3 Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with skin and eyes.

6.2 Environmental precautions Do NOT wash away into sewer.



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- 6.3 **Methods and material for containment and cleaning up** Sweep up spilled substance and remove to safe place. Transfer to a container for disposal or recovery.
- 6.4 **Reference to other sections** None

SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid release to the environment.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- Storage Temperature Store at room temperature.
 - Incompatible materials Not available.
- 7.3 **Specific end use(s)** Creating cyanotype prints




SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
- 8.1.1 **Occupational Exposure Limits**

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
None	-----	-----	-----	-----	-----	-----

Biological limit value

Limit value type (country of origin)	SUBSTANCE.	CAS No.	Biological limit value	Note:
None known	None	-----	None	None

- 8.1.2 **Recommended monitoring method** None
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls** Not normally required.
- 8.2.2 **Personal protection equipment**
- Eye/face protection  Wear protective eyewear (goggles, face shield, or safety glasses).
- Skin protection (Hand protection/ Other)  Wash hands and exposed skin thoroughly after handling.
- Respiratory protection  Not normally required.
- Thermal hazards Not normally required.
- 8.2.3 **Environmental Exposure Controls** Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 **Information on basic physical and chemical properties**
- Appearance Solid / Crystalline powder



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Colour	Dark brown
Odour	Not available
Odour Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	Decomposes below melting point at (°C): 116
Boiling point/boiling range (°C):	Decomposes
Flash Point (°C)	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Non-flammable / Non-combustible
Explosive limit ranges	Not available
Vapour Pressure (Pascal)	Not available
Vapour Density (Air=1)	Not available
Density (g/ml)	1.19
Solubility (Water)	580.8 g/L @ 20 °C
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	-0.737 (est. LogKow)
Auto Ignition Temperature (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cP@ 40°C)	Not available
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2 Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	None anticipated.
10.4 Conditions to avoid	Incompatible materials
10.5 Incompatible materials	Not available.
10.6 Hazardous Decomposition Product(s)	None known

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
11.1.1 Substances	
Acute toxicity	LD50 (oral) mg/kg: > 2000 (rat) LD50 (dermal) mg/kg: > 8000 (rabbit) LC50 (inhalation) mg/l/4h: No data.
Skin corrosion/irritation	Unlikely to cause skin irritation.
Serious eye damage/irritation	Unlikely to cause eye irritation.
Respiratory or skin sensitization	It is not a skin sensitiser in animal tests.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No data. Not to be expected.
Reproductive toxicity	Not to be expected.
STOT - single exposure	Not to be expected.
STOT - repeated exposure	Not to be expected. NOAEL >600 mg/kg-bw
Aspiration hazard	No data.
11.1.2 Mixtures	Not applicable.
11.1.3 Substances in preparations / mixtures	Not applicable.
11.2 Other information	None known.

SECTION 12: ECOLOGICAL INFORMATION

Substances in preparations / mixtures:

12.1 Toxicity	
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Short term	LL50 (96 hour): >100 mg/L (<i>Brachydanio rerio</i>) EL50 (48 hour): 116.2 mg/l (<i>Daphnia magna</i> , mobility) EC50 (72 hour): >100 mg/l (<i>Scenedesmus quadricauda</i>)
Long Term	Not to be expected.
12.2 Persistence and degradability	Readily biodegradable.
12.3 Bioaccumulative potential	The substance has low potential for bioaccumulation.
12.4 Mobility in soil	The substance has low mobility in sediment.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
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SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
14.1 UN number	Not classified as dangerous for transport.		
14.2 Proper Shipping Name			
14.3 Transport hazard class(es)			
14.4 Packing Group			
14.5 Environmental hazards			
14.6 Special precautions for user			
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:	
15.1.1 EU regulations	Listed
Regulation (EC) 2037/2000 - Dangerous to the ozone layer.	No.
Regulation (EC) 850/2004 - Persistent Organic Pollutants	No.
Regulation (EC) 649/2012 - Export/Import of Dangerous Chemicals	No.
Regulation (EC) 1907/2006 - REACH Authorisations and/or restrictions on use	No.
15.1.2 National regulations	Not established.
German Water Classification / Wassergefährdungsklasse (Germany)	0
15.2 Chemical Safety Assessment	Not applicable

SECTION 16: OTHER INFORMATION

Revision: 25 June 2021

The following sections contain revisions or new statements: 1 - 16.

Hazard statement(s) and Precautionary statement(s):

- None.

GHS Classification

- None.

Training advice: None.

Additional Information: None.

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