Ammonium iron(III) citrate

09713-50G

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SECTION 1. IDENTIFICATION

Product name	:	Ammonium iron(III) citrate
Number	:	000000020660
Product Use Description	:	Laboratory chemicals
Manufacturer or supplier's details	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926
For more information call	:	1-800-368-0050 +1-231-726-3171(Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	**Medical: 1-800-498-5701 or +1-303-389-1414**
	:	**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
	:	
	:	(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form	:	solid
Color	:	green
Odor	:	No data available

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Precautionary statements	:	**Prevention:** Use personal protective equipment as required.
Hazards not otherwise	:	Repeated or prolonged exposure may irritate eyes, skin and

classified respiratory system.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : $C_6H_8O_7 \cdot xFe^{3+} \cdot yNH_3$

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Ammonium iron(III) citrate	1185-57-5	<=100.00 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation : If breathed in, move person into fresh air. If symptoms persist, call a physician.

Skin contact : After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.

Ingestion : When swallowed, allow water to be drunk. Call a physician immediately.

Notes to physician

Most important : No information available.

symptoms/effects, acute and delayed		
Indication of immediate medical attention and special treatment needed, if necessary	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry powder
Specific hazards during firefighting	:	Fire may cause evolution of: Carbon oxides nitrogen oxides Metal oxides
Special protective equipment for firefighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear personal protective equipment. Unprotected persons must be kept away. Provide adequate ventilation. Avoid dust formation.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Use mechanical handling equipment. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling	:	Wear personal protective equipment. Avoid dust formation. Avoid inhalation, ingestion and contact with skin and eyes.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities	:	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures	:	Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid breathing dust. Avoid contact with skin, eyes and clothing.
Engineering measures	:	Use with local exhaust ventilation.
Eye protection	:	Safety glasses with side-shields
Hand protection	:	Latex gloves Gloves must be inspected prior to use. Replace when worn.
Skin and body protection	:	Protective suit
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Ammonium iron(III) citrate	1185-57-5	TWA : Time weighted average	1 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as Fe			

Ammonium iron(III) citrate	1185-57-5	REL : Recommended exposure limit (REL):	1 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Further information	:	Expressed as : as Fe			

Ammonium iron(III) citrate	1185-57-5	TWA : Time weighted average	1 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as Fe			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Color : green

Odor : No data available

Odor threshold : Note: No data available

pH : Note: No data available

Melting point/range : Note: No data available

Boiling point/boiling range : Note: No data available

Flash point	:	Note: Not applicable
Evaporation rate	:	Note: No data available
Lower explosion limit	:	Note: No data available
Upper explosion limit	:	Note: No data available
Vapor pressure	:	Note: No data available
Vapor density	:	Note: No data available
Density	:	Note: No data available
Water solubility	:	Note: No data available
Ignition temperature	:	Note: No data available
Decomposition temperature	:	Note: No decomposition if used as directed., May decompose on long exposure to light.
Viscosity, dynamic	:	Note: No data available
Viscosity, kinematic	:	Note: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.

Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Exposure to light.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Fire may cause evolution of: Carbon oxides nitrogen oxides Metal oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	Note: No data available
Acute inhalation toxicity	:	Note: No data available
Acute dermal toxicity	:	Note: No data available
Skin irritation	:	Note: No data available
Eye irritation	:	Note: No data available
Sensitisation	:	Note: No data available
Genotoxicity in vitro	:	Note: No data available
Further information	:	Note: No toxicology information is available.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	:	Note: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Note: No data available
Toxicity to algae	:	Note: No data available

Further information on ecology

Additional ecological information	:	Should not be released into the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	:	Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	Not dangerous goods
TDG	Not dangerous goods
IATA	Not dangerous goods
IMDG	Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances	:	On TSCA Inventory

Control Act

Australia. Industrial Chemicals Act (AIIC), as amended	:	On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on the Canadian DSL
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance with the inventory
Philippines. Inventory of Chemicals and Chemical Substances (PICCS)	:	On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances (IECSC)	:	On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	:	No SARA Hazards
CERCLA Reportable Quantity	:	1000 lbs

California Prop. 65	:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK	:	Ammonium iron(III) citrate	1185-57-5
New Jersey RTK	:	Ammonium iron(III) citrate	1185-57-5
Pennsylvania RTK	:	Ammonium iron(III) citrate	1185-57-5

SECTION 16. OTHER INFORMATION

		HMIS III	NFPA
Health hazard	:	1	1
Flammability	:	0	0
Physical Hazard	:	0	
Instability	:		0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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