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Product Name: Ammonium ferric citrate

CAS No.: 1185-57-5

Version: 0

Product Code	: 9	0751					
Company Name	: A	dvent Chembio Priv	vate Limited				
Address	: W	W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR					
F "		ROAD, RABALE, NAVI MUMBAI - 400 701.					
E-mail	: <u>ir</u>	info@adventchembio.com					
WEBSITE	: <u>w</u>	ww.adventchembio.	.com				
Company Phone Number	: 02	22-27690837					
2. Composition/Information	on Ingre	dients					
Ingredient		CAS No	Percent				
AMMONIUM FERRIC CITRA	ATE	1185-57-5	90- 100%				
Serious eye damage/eye irritati Labels elements Hazard symbol Signal word Hazard statement Precautionary statement Prevention	on	 Category 2 No Symbol Warning Causes eye irritation Wash thorough 	tation. Ily after handling.				
Response Storage Disposal		 IF IN EYES: Ri Remove contact eye irritation pe Store locked up Dispose of cont disposal facility 	tinse cautiously with water for several minutes. et lenses, if present and easy to do. Continue rinsing. If ersists: Get medical advice/attention.				
Other hazards which do not a in GHS classification	result	: None.					
4. First Aid Measures							
General information			lvice/attention if you feel unwell. If medical advice is product container or label at hand. Show this safety				
			ne doctor in attendance.				



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		feel unwell.
Inhalation	:	Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
Skin contact	:	Wash skin thoroughly with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
Eye contact	:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	:	Irritating to eyes, respiratory system and skin.
Indication of immediate medical attention and special treatment needed	:	Treat symptomatically.

5. Fire fighting measures		
General fire hazards Suitable (and unsuitable) extinguish	: ng n	No unusual fire or explosion hazards noted. nedia
Suitable extinguishing media	:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media Specific hazards arising from the chemical Special protective equipment and pr	: : ecau	None known. During fire, gases hazardous to health may be formed. tions for firefighters
Special fire fighting procedures Special protective equipment for fire-fighters	:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in
		enclosed spaces, SCBA.

6. Accidental Release Measures		
Personal precautions, protective equipment and emergency procedures	:	Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.
Methods and material for containment and cleaning up	:	Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
Notification Procedures	:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.



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7. Handling and Storage	
Precautions for safe handling	: Avoid conditions which create dust. Avoid inhalation of dust. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash thoroughly after handling.
Conditions for safe storage,	: Keep containers tightly closed. Store in a well-ventilated place.
including any incompatibilities	

8. Exposure Controls Personal Protection

Control parameters Occupational exposure limits

Chemical identity	Туре	Exposure Limit values	Source
FERRIC AMMONIUM CITRATE - as Fe	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)
	REL	1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
FERRIC AMMONIUM CITRATE	ST ESL	10 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	AN ESL	1 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
FERRIC AMMONIUM CITRATE - as Fe	TWA PEL	1 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)

Appropriate engineering controls Individual protection measures, such as personal protective equipment General information

No data available.

:

:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.



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Eye/face protection :	Wear safety glasses with side shields (or goggles).
Hand protection :	Chemical resistant gloves.
Other :	Wear suitable protective clothing.
Respiratory protection :	In case of inadequate ventilation use suitable respirator.
Hygiene measures :	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Do not get this material in contact with skin. Do not get in eyes.

9. Physical and Chemical Properties

Appearance	:	Green or brown Solid.
Odor	:	Odorless or slight odor
рН	:	No data available.
Melting point/freezing point	:	No data available.
Initial boiling point and boiling	:	No data available.
range		
Flash Point	:	No data available
Vapor pressure	:	No data available.
Vapor density	:	No data available.
Relative density	:	1.8 (20 °C) 4 °C
Solubility in water	:	Very Soluble
Solubility (other)	:	No data available.
Formula	:	$C_6H_8O_7.xFe^{3+}.YNH_3$
Molecular Weight	:	-

10. Stability and Reactivity

:	No dangerous reaction known under conditions of normal use.
:	Material is stable under normal conditions.
:	Hazardous polymerization does not occur.
:	Contact with incompatible materials. Heat. Light. Moisture
:	Strong oxidizing agents. Iodides.
:	Thermal decomposition may produce oxides of carbon and nitrogen.



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11. Toxicological Information			
Information on likely routes of exposure			
Ingestion	:	May cause irritation of the gastrointestinal tract.	
Inhalation	:	May cause irritation to the respiratory system.	
Skin contact Eye contact	:	Causes mild skin irritation. Causes eye irritation.	
Information on toxicological effects			
Acute toxicity (list all possible route	s of ex	xposure)	
Oral Product	:	No data available.	
Dermal Product	:	No data available.	
Inhalation Product	:	No data available	
Repeated dose toxicity Product Skin corrosion/irritation Product	:	No data available. Causes mild skin irritation.	
Serious eye damage/eye irritation	•	Causes eye irritation.	
Product	•		
Respiratory or skin sensitization	:	Not a skin sensitizer.	
Product Carcinogenicity Product	:	This substance has no evidence of carcinogenic properties.	
IARC Monographs on the	:	No carcinogenic components identified.	
Evaluation of Carcinogenic Risks to Humans DIOXANE			
US. National Toxicology Program	:	No carcinogenic components identified.	
(NTP) Report on Carcinogens DIOXANE			
US. OSHA Specifically Regulated	:	No carcinogenic components identified.	
Substances (29 CFR 1910.1001- 1050			
Germ cell mutagenicity			
In vitro Product	:	No mutagenic components identified.	
In vivo Product	:	No mutagenic components identified.	
Reproductive toxicity Product	:	No components toxic to reproduction.	
Specific target organ toxicity - single exposure Product	:	Respiratory tract irritation.	
Specific target organ toxicity -	:	No data available.	
repeated exposure Product	-		
Aspiration hazard Product	:	Not classified	
Other effects	:	None known.	



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12. Ecological Information

Ecotoxicity		
Acute hazards to the aquatic environ	mei	nt:
Fish Product	:	No data available.
Aquatic invertebrates Product	:	No data available.
Chronic hazards to the aquatic envir	onn	nent :
Fish Product	:	No data available.
Aquatic invertebrates Product	:	No data available.
Toxicity to Aquatic Plants Product:	:	No data available.
Persistence and degradability		
Biodegradation Product	:	There are no data on the degradability of this product.
BOD/COD ratio Product	:	No data available.
Bioaccumulative potential		
Bioconcentration factor (BCF)	:	No data available on bioaccumulation.
Product		
Partition coefficient n-octanol /	:	No data available.
water (log Kow) Product		
Mobility in soil	:	The product is water soluble and may spread in water systems.
Other adverse effects	:	The product is mildly toxic to aquatic organisms.

13. Disposal consideration		
Disposal instructions	:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging	:	Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	Not regulated.				
IMDG			Not regulated.		
ΙΑΤΑ			Not regulated.		



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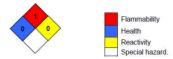
15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. Other Information

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe.

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