

SAFETY DATA SHEET

1. Identification

Product identifier: FERRIC AMMONIUM SULFATE

Other means of identification **Product No.:** 1988

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name:	Avantor Performance Materials, Inc.
Address:	3477 Corporate Parkway, Suite 200 Center Valley, PA 18034
Telephone:	Center Valley, 1 A 10004
	Customer Service: 855-282-6867
Fax:	
Contact Person: e-mail:	Environmental Health & Safety info@avantormaterials.com

Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard classification

Not classified

Label elements

Hazard symbol:	No symbol
Signal word:	No signal word.

- Hazard statement: Not applicable
- Precautionary statement Not applicable

Other hazards which do not None. result in GHS classification:

3. Composition/information on ingredients



Mixtures

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
FERRIC AMMONIUM SULFATE (HYDRATED FORM)		7783-83-7	98 - 100%
* All concentrations are percent	by weight unless ingredie	nt is a gas. Gas cond	centrations are in percent by volume.
I. First-aid measures			
General information:	Get medical adv to the doctor in a		ou feel unwell. Show this safety data sheet
Ingestion:	Rinse mouth tho you feel unwell.	Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if you feel unwell.	
Inhalation:	Move to fresh ai	. Get medical at	tention if symptoms persist.
Skin contact:		Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.	
Eye contact:	Flush thoroughly	with water. If irr	itation occurs, get medical assistance.
Most important symptoms/effe	ects, acute and dela	yed	
Symptoms:	May cause irritat	ion to skin, eyes	, and respiratory tract.
ndication of immediate medical	l attention and spec	cial treatment n	eeded
Treatment:	Treat symptoma	tically. Symptom	s may be delayed.
5. Fire-fighting measures			
General fire hazards:	The product is n	on-combustible.	
Suitable (and unsuitable) extin	guishing media		
Suitable (and unsuitable) extin Suitable extinguishing media:		shing media app	propriate for surrounding materials.
Suitable extinguishing		shing media app	propriate for surrounding materials.
Suitable extinguishing media: Unsuitable extinguishing media:	Use fire-extingui None known.		propriate for surrounding materials. nealth may be formed.
Suitable extinguishing media: Unsuitable extinguishing media: Specific hazards arising from the chemical:	Use fire-extingui None known. During fire, gase	s hazardous to h	
Suitable extinguishing media: Unsuitable extinguishing media: Specific hazards arising from	Use fire-extingui None known. During fire, gase and precautions for Move containers	s hazardous to h firefighters from fire area if e-exposed conta	nealth may be formed. you can do so without risk. Use water iners cool. Cool containers exposed to

6. Accidental release measures



Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.
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.
7. Handling and storage	
Precautions for safe handling:	Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Keep containers tightly closed. Store in cool, dry place. Store in a well- ventilated place.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Chemical identity	Туре	Exposure Limit values	Source
FERRIC AMMONIUM SULFATE (HYDRATED FORM) - 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)

Appropriate engineering controls

No data available.

Individual protection measures, such as personal protective equipment

General information:	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.
Eye/face protection:	Use tight fitting goggles if dust is generated.
Skin protection Hand protection:	Wear protective gloves.
Other:	Wear suitable protective clothing.
Respiratory protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	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. Provide eyewash station and safety shower.



9. Physical and chemical properties

Appearance

Physical state:	Solid	
Form:	Crystals or powder.	
Color:	Pale violet	
Odor:	Odorless	
Odor threshold:	No data available.	
pH:	No data available.	
Melting point/freezing point:	39 °C	
Initial boiling point and boiling ran	nge: 230 °C	
Flash Point:	No data available.	
Evaporation rate:	No data available.	
Flammability (solid, gas):	No data available.	
Upper/lower limit on flammability of	or explosive limits	
Flammability limit - upper (%)	: No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper (%):	No data available.	
Explosive limit - lower (%):	No data available.	
Vapor pressure:	No data available.	
Vapor density:	No data available.	
Relative density:	1.71 (20 °C)	
Solubility(ies)		
Solubility in water:	Soluble	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/wat	ter): No data available.	
Auto-ignition temperature:	No data available.	
Decomposition temperature:	No data available.	
Viscosity:	No data available.	
Other information		
Molecular weight:	482.20 g/mol	
10. Stability and reactivity		
Reactivity:	No dangerous reaction known under conditions of normal use.	
Chemical stability:	Material is stable under normal conditions.	
Possibility of hazardous reactions:	Hazardous polymerization does not occur.	
Conditions to avoid:	Contact with incompatible materials. Heat. Moisture.	
Incompatible materials:	Strong oxidizing agents.	
Hazardous decomposition products:	By heating and fire, toxic vapors/gases may be formed.	

11. Toxicological information

Information on likely routes of exposure

May cause irritation of the gastrointestinal tract.



Inhalation:	May cause irritation to the respiratory system.

Skin contact: May cause irritation.

Eye contact: May cause temporary eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	No data available.
Dermal Product:	No data available.
Inhalation	

Product: No data available.

Repeated dose toxicity Product:

Skin corrosion/irritation Product:

May cause skin irritation.

No data available.

Serious eye damage/eye irritation Product: May irritate eyes.

Respiratory or skin sensitization Product: Not a skin sensitizer.

Carcinogenicity Product:

This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified

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 - s Product:	ingle exposure No data available.
Specific target organ toxicity - repeated exposure Product: No data available.	
Aspiration hazard Product:	Not classified
Other effects:	None known.



12. Ecological information

Ecotoxicity:		
Acute hazards to the aquatic	environment:	
Fish Product:	No data available.	
Aquatic invertebrates Product:	No data available.	
Chronic hazards to the aquati	c environment:	
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) Product: No data available on bioaccumulation.		
Partition coefficient n-octan Product:	ol / water (log Kow) No data available.	
Mobility in soil:	The product is water soluble and may spread in water systems.	
Other adverse effects:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
13. Disposal considerations		
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		

DOT

Not regulated.



Not regulated.

ΙΑΤΑ

Not regulated.

15. Regulatory information US federal regulations TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities. CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories

Х	Acute (Immediate)		Chronic (Delayed)		Fire		Reactive		Pressure Generating
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SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

SARA 304 Emergency release notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous chemicalChemical identityThreshold Planning QuantityFERRIC AMMONIUM500 lbsSULFATE (HYDRATED500 lbs

SARA 313 (TRI reporting)

Chemical identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing	
FERRIC AMMONIUM SULFATE (HYDRATED FORM)	10000 lbs	25000 lbs.	_

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

US state regulations

FORM)

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.



US. Pennsylvania RTK - Hazardous Substances

FERRIC AMMONIUM Listed SULFATE (HYDRATED FORM)

US. Rhode Island RTK

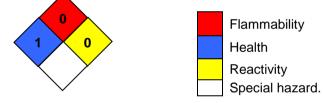
No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Japan ISHL Listing: Japan Pharmacopoeia Listing: On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory. Not in compliance with the inventory. Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

NFPA Hazard ID



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

Issue date:	06-03-2014			
Revision date:	No data available.			
Version #:	1.0			
Further information:	No data available.			



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