

SAFETY DATA SHEET

1. Identification

Product identifier FERRIC AMMONIUM SULFATE, DODECAHYDRATE, REAGENT (ACS)

Other means of identification

Product code 605

Synonym(s) AMMONIUM FERRIC SULFATE * IRON (III) AMMONIUM SULFATE

Recommended use professional, scientific and technical activities: other professional, scientific and technical activities

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name GFS Chemicals, Inc.
Address P.O. Box 245

Powell OH

43065 US

Telephone Phone 740-881-5501

Toll Free 800-858-9682 Fax 740-881-5989

Website www.gfschemicals.com
E-mail service@qfschemicals.com

Emergency phone Emergency Assistance Chemtrec 800-424-9300

number

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA hazard(s) Not classified.

No hazards resulting from the material as supplied.

Label elements

Hazard symbolNo symbol.Signal wordNot available.Hazard statementNot available.

Precautionary statement

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

Hazard(s) not otherwise Not classified.

classified (HNOC)

3. Composition/information on ingredients

Substances

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
FERRIC AMMONIUM SULFATE	AMMONIUM FERRIC SULFATE	7783-83-7	100
	IRON (III) AMMONIUM SULFATE		

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

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Ingestion Get medical advice/attention if you feel unwell.

Not available.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

None known.

Specific hazards arising from

None known

the chemical

Special protective equipment and precautions for

Wear suitable protective equipment.

firefighters

Fire-fighting equipment/instructions In the event of fire, cool tanks with water spray.

Specific methods

Cool containers exposed to flames with water until well after the fire is out.

Water. Use extinguishing agent suitable for type of surrounding fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas.

Methods and materials for containment and cleaning up

This product is miscible in water. Stop the flow of material, if this is without risk. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. For waste disposal, see section 13 of the MSDS.

Environmental precautions

No special environmental precautions required.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Material	Туре	Value
FERRIC AMMONIUM	TWA	1 mg/m3
SULFATE (CAS 7783-83-7)		

US. NIOSH: Pocket Guide to Chemical Hazards Material **Type**

Value FERRIC AMMONIUM **TWA** 1 mg/m3

Biological limit values

SULFATE (CAS 7783-83-7)

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

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.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin protection

Hand protection Wear protective gloves.

Other Normal work clothing (long sleeved shirts and long pants) is recommended. Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not available.

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General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Crystalline.
Physical state Solid.
Form Solid.

Color Pale violet.
Odor Odorless.
Odor threshold Not available.
pH Not available.

Melting point/freezing point 102.2 - 105.8 °F (39 - 41 °C)

Initial boiling point and

boiling range

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

(%)

Flammability limit -

upper (%)

Not available.

Not available.

Explosive limit - lower

Flammability limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)very solublePartition coefficientNot available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 1.71 g/cm3

Molecular formula FeNH4(SO4)2.12H20

Molecular weight 482.19 g/mol

Specific gravity 1.71

10. Stability and reactivity

Reactivity Not available.

Chemical stability No hazardous self-reactivity.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid None known.

Incompatible materials None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

IngestionDue to lack of data the classification is not possible.InhalationDue to lack of data the classification is not possible.Skin contactDue to lack of data the classification is not possible.

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Eye contact Due to lack of data the classification is not possible.

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Information on toxicological effects

Not available. **Acute toxicity**

Skin corrosion/irritation Due to lack of data the classification is not possible.

Serious eye damage/eye

irritation

May irritate eyes. Due to lack of data the classification is not possible.

Respiratory sensitization Due to lack of data the classification is not possible.

Skin sensitization May be irritating to the skin. Due to lack of data the classification is not possible.

Germ cell mutagenicity Due to lack of data the classification is not possible.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

Reproductive toxicity Due to lack of data the classification is not possible. Specific target organ toxicity Due to lack of data the classification is not possible.

- single exposure

Aspiration hazard

Due to lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure

Due to lack of data the classification is not possible.

Chronic effects Prolonged inhalation may be harmful.

Further information This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

Persistence and degradability None known. **Bioaccumulative potential** Not available. Mobility in soil Not available. Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Not available. Hazardous waste code Not regulated.

Waste from residues / Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

unused products

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

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CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 No

Hazardous chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

Food and Drug

Not regulated.

Administration (FDA)

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

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US. Rhode Island RTK

FERRIC AMMONIUM SULFATE (CAS 7783-83-7)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*		
Australia	Australian Inventory of Chemical Substances (AICS)	Yes		
Canada	Domestic Substances List (DSL)	Yes		
Canada	Non-Domestic Substances List (NDSL)	No		
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes		
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes		
Europe	European List of Notified Chemical Substances (ELINCS)	No		
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes		
Korea	Existing Chemicals List (ECL)	Yes		
New Zealand	New Zealand Inventory	Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes		
*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)				

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

Issue date August-29-2013

Version # 01

Further information Not available.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. 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.

Revision Information Product and Company Identification: Synonyms

Physical & Chemical Properties: Multiple Properties

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