

Material Safety Data Sheet

Ferrous ammonium sulfate, ACS

Section 1 - Chemical Product and Company Identification

MSDS Name:

Ferrous ammonium sulfate, ACS

Catalog Numbers:

Q06441□□

Synonyms:

Iron ammonium sulfate; Ammonium iron sulfate; Ammonium ferrous sulfate.

Company Identification:

Qorpak□□

1195 Washington Pike□□

Bridgeville, PA 15017□□

Company Phone Number:

(412) 257-3100

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7783-85-9	Ferrous ammonium sulfate, hexahydrate	100

Section 3 - Hazards Identification

Emergency Overview

Appearance: *pale green crystals***Warning!** Causes eye, skin, and respiratory tract irritation. Light sensitive. Air sensitive.**Target Organs:** *none known.***Potential Health Effects****Eye:**

Causes eye irritation.

Skin:

Causes skin irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause cardiac disturbances.

Inhalation:

Causes respiratory tract irritation.

Chronic:

Chronic exposure may cause liver damage.

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Section 4 - First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water. Get medical aid if irritation or symptoms occur.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7783-85-9: Health: 2; Flammability: 0; Instability: 0.

Explosion Limits:

Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

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Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Ferrous ammonium sulfate, hexahydrate	1 mg/m ³ TWA (as Fe) (listed under Iron salts (soluble)).	1 mg/m ³ TWA (as Fe) (listed under Iron salts (soluble)).	None of the components are on this list.

OSHA Vacated PELs: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment**Eyes:**

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin:

Wear appropriate protective clothing and gloves.

Clothing:

Wear appropriate protective clothing and gloves.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State:	Crystals
Color:	Pale green
Odor:	Odorless
pH:	3-5 (5% aqueous solution)

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Vapor Pressure:	No information found.
Vapor Density:	No information found.
Evaporation Rate:	Not available
Viscosity:	No information found.
Boiling Point:	Not available
Freezing/Melting Point:	100°C (decomposes)
Decomposition Temperature:	100-110°C
Solubility in water:	269 g/l @ 20°C
Specific Gravity/Density:	1.865
Molecular Formula:	FeSO ₄ (NH ₄) ₂ SO ₄ •6H ₂ O
Molecular Weight:	392.13

Section 10 - Stability and Reactivity

Chemical Stability:

Stable at room temperature in closed containers under normal storage and handling conditions.
Slowly oxidized by atmospheric oxygen. Deliquescent (tending to absorb atmospheric water vapor and become liquid). Slowly effloresces (loses water molecules of hydration) on exposure to air.

Conditions to Avoid:

Light, dust generation, excess heat, prolonged exposure to air.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong acids.

Hazardous Decomposition Products:

Oxides of sulfur, nitrogen oxides (NO_x) and ammonia (NH₃), oxides of iron.

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7783-85-9: BR6500000.

LD50/LC50:

CAS# 7783-85-9:
Oral, rat: LD50 = 3250 mg/kg.

Carcinogenicity:

CAS# 7783-85-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

No information found.

Teratogenicity:

No information found.

Reproductive:

No information found.

Mutagenicity:

No information found.

Neurotoxicity:

No information found.



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Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7783-85-9 is not on the TSCA Inventory; however, its anhydrous form is on the inventory, and so this hydrate is exempt from TSCA Inventory requirements (40CFR270.3(u)(2)).

SARA Reportable Quantities (RQ):

CAS# 7783-85-9 does not have an RQ.

CERCLA/SARA Section 313:

No chemicals are reportable under Section 313.

OSHA - Highly Hazardous:

None of the components are on this list.

US State

State Right to Know:

CAS# 7783-85-9 can be found on the following state right to know lists: California, (listed as Iron salts (soluble)), Pennsylvania, (listed as Iron salts (soluble)), Minnesota, (listed as Iron salts (soluble)).

California Regulations:

Not listed.

European/International Regulations

Canadian DSL/NDSL:

CAS# 7783-85-9 is not listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7783-85-9 is not listed on Canada's Ingredient Disclosure List.



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Section 16 - Other Information

MSDS Creation Date: August 31, 2006

Revision Date: None

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