

Safety Data Sheet

OSHA format Revision Number 0

Revision Date Aug-06-2021

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name

FERROIN INDICATOR

Other means of identification

Product Code(s)

6410

Recommended use of the chemical and restrictions on use

Recommended Use

Use as a laboratory reagent. Laboratory chemicals. Industrial (not for food or food contact

use).

Uses advised against

This product should not be used in applications other than those listed

Details of the supplier of the safety data sheet

LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone numbers

(CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

EMERGENCY OVERVIEW

Hazard statements

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Appearance Clear Red-Orange

Physical state liquid

Odor Odorless

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of reach of children.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. IF SWALLOWED:. Drink 1 or 2 glasses of water. Call a physician immediately.

Storage:

Store in a well-ventilated place. Keep cool.

Other Hazards

Harmful to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Chemical name	CAS No	Weight-%
Phenanthroline (1,10), monohydrate	5144-89-8	<0.5

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing.

Eye contact Rinse thoroughly with water as necessary. If irritation persists or develops, contact a

physician.

Skin contact Wash off with soap and plenty of water removing all contaminated clothes and shoes. If

irritation develops or persists, consult physician.

Inhalation Not expected to require first aid measures. Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water. If symptoms persist or

develop contact physician.

Self-protection of the first aider Use personal protective equipment. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with

a one-way valve or other proper respiratory medical device.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO2), or foam.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8. Avoid contact with eyes, skin and clothing. Wear protective gloves/clothing

and eye/face protection.

Environmental precautions See Section 12 for additional Ecological Information. Beware of vapors accumulating to

form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container.

Methods for cleaning up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.

Keep out of the reach of children.

Incompatible Products

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phenanthroline (1,10), monohydrate 5144-89-8	*_	*-	Not Established

Appropriate engineering controls

Engineering Measures

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Gloves & Lab Coat.

Hygiene Measures

Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

liauid

Appearance

Clear Red-Orange

Odor

Odorless

Property

Values ___

Remarks • Method

Melting point / freezing point Boiling point / boiling range

No information available No information available

Not Applicable

Flash point **Evaporation rate**

Flammability (solid, gas)

No information available

Flammability Limit in Air

No information available Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available

Vapor density Specific gravity Water solubility

No information available No information available Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available **Decomposition temperature**

Kinematic viscosity Dynamic viscosity **Explosive properties** Oxidizing properties

No information available No information available No information available No information available

ca. 1.0 (g/cm3 at 20°C/68°F)

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Do not freeze.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products May produce the following when heated to decomposition:. Carbon oxides (COx). Nitrogen

oxides (NOx). Sulfur oxides (SOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Phenanthroline (1,10), monohydrate	= 132 mg/kg (Rat)	Not Established	Not Established
5144-89-8			

Information on toxicological effects

Carcinogenicity 1,10-Phenanthroline has been investigated a mutagen, reproductive effector. Ferrous sulfate: has been investigated a tumorigen, mutagen, reproductive effector.

Chemical name	ACGIH	IARC	NTP	OSHA
Phenanthroline (1,10),	Not Established	Not Established	Not Established	Not Established
monohydrate				
5144-89-8				

ATEmix (oral) 44,000.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Phenanthroline (1,10), monohydrate	Not Established	Not Established	Not Established
5144-89-8			

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Phenanthroline (1,10), monohydrate	Not Established
5144-89-8	

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose according to federal, state, and local regulations. If permitted, dissolve in large volume of water and rinse to drain with excess water. Dispose of contents/containers in accordance with local regulations.

Contaminated packaging

Do not reuse empty containers.

	Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Г	Phenanthroline (1,10),	Not Established	-	Not Established	Not Established
- 1	monohydrate			ľ	
L	5144-89-8				

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Phenanthroline (1,10),	Not Established	Not Established	Not Established	Not Established
monohydrate				
5144-89-8				

Chemical name	California Hazardous Waste Status
Phenanthroline (1,10), monohydrate	*-
5144-89-8	

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

Not regulated MEX

ICAO Not regulated

Not regulated IATA

IMDG/IMO Not regulated

RID Not regulated

Not regulated ADR

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply **ENCS** Complies Complies **IECSC KECL** Does not comply

PICCS Complies Complies **AICS**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %		
Phenanthroline (1,10), monohydrate 5144-89-8	Not Established		
SARA 311/312 Hazard Categories			
Acute health hazard	Yes		
Chronic Health Hazard	No		
Fire hazard	No		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phenanthroline (1,10), monohydrate 5144-89-8	Not Established	Not Established	Not Established	Not Established

CERCLA

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Phenanthroline (1,10), monohydrate	****	Not Established	-
5144-89-8			

US State Regulations

California Proposition 65

Chemical name	California Proposition 65
Phenanthroline (1,10), monohydrate 5144-89-8	Not Established

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phenanthroline (1,10), monohydrate	Not Established	Not Established	Not Established
5144-89-8			

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

	16. OTHER INFORMATION	
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NFPA Health hazard 0 Health hazard 1 Flammability 0 Stability 0



Prepared by Issuing Date Revision Date Reason for revision Regulatory Affairs Department Mar-02-2017 Aug-06-2021 New GHS format

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name

Nitrite DRT Reagent

Other means of identification

Product Code(s) **UN-No**

6411 2796

Recommended Use

Recommended use of the chemical and restrictions on use Laboratory chemicals. Use as a laboratory reagent. Industrial (not for food or food contact

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION		
Skin corrosion/irritation	Category 1 Sub-category A	
Serious eye damage/eye irritation	Category 1	
Carcinogenicity	Category 1A	

EMERGENCY OVERVIEW

DANGER

Hazard statements

Causes severe skin burns and eye damage. May cause cancer.



Appearance Clear, amber colored

Physical state liquid

Odor Slight

Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not taste or swallow. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling.

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED, Rinse mouth, Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Unknown Acute Toxicity

7.84% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Ceric Ammonium Nitrate	16774-21-3	8
Sulfuric acid	7664-93-9	10

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

Show this safety data sheet to the doctor in attendance.

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes. Call a physician immediately.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated

clothing and wash before reuse. Call a physician immediately.

Inhalation Remove to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Call a physician immediately.

Self-protection of the first aider

Use personal protection recommended in Section 8. Do not use mouth-to-mouth method if

victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket

mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Water.

Specific hazards arising from the chemical

Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.).

Hazardous combustion products

Contact with metals may evolve flammable hydrogen gas.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

contact with eyes, skin and clothing. Avoid breathing vapors or mists.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for cleaning up Neutralize spill with alkaline material (sodium bicarbonate), being careful to prevent

splattering, then containerize slurry and hold for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for

later disposal. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not taste or swallow. Do not eat, drink or smoke when using this

product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

incompatible materials such as cyanides or sulfides. Store away from strong bases or metals, Store away from incompatible materials. Keep out of the reach of children.

Incompatible Products Strong oxidizing agents. Reducing agents. Cyanides. Aluminium. Combustible materials.

Water reactive material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ceric Ammonium Nitrate 16774-21-3	-	-	Not Established
Sulfuric acid 7664-93-9	TWA: 0.2 mg/m ³	TWA: 1 mg/m ³	IDLH: 15 mg/m³ TWA: 1 mg/m³

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations

Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles). If splashes are likely to occur. Face

protection shield.

Skin and body protection Wear protective gloves/protective clothing/eye protection/face protection. Nitrile rubber.

Avoid splashing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid

Odor Slight Clear, amber colored **Appearance**

Remarks • Method Values Property

<1 pН

Melting point / freezing point No information available Boiling point / boiling range 100 °C / 212 °F Flash point No information available

Evaporation rate

No information available Flammability (solid, gas)

Flammability Limit in Air

No information available Upper flammability limit: Lower flammability limit: No information available No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility Solubility in other solvents No information available No information available Partition coefficient No information available Autoignition temperature **Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available No information available **Explosive properties** Oxidizing properties No information available

Other Information

No information available Softening point No information available Molecular weight No information available VOC Content (%) No information available Density No information available **Bulk density**

10. STABILITY AND REACTIVITY

Stable under recommended storage conditions. Stability

Contact with metals may evolve flammable hydrogen gas. **Hazardous Reactions**

Hazardous polymerization does not occur. Hazardous polymerization

Excessive heat. Incompatible Products. Conditions to avoid

Strong oxidizing agents. Reducing agents. Cyanides. Aluminium. Combustible materials. Incompatible materials

Water reactive material.

Hazardous decomposition products Sulfur oxides (SOx). Nitrogen oxides (NOx). Carbon oxides (COx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

obinponent information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ceric Ammonium Nitrate	Not Established	Not Established	Not Established

6411 Nitrite DRT Reagent

16774-21-3			
Sulfuric acid 7664-93-9	= 2140 mg/kg (Rat)	Not Established	= 510 mg/m³ (Rat) 2 h

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Ceric Ammonium Nitrate 16774-21-3	•	Group 2A	Not Established	Х
Sulfuric acid 7664-93-9	A2	Group 1	Known	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Cancer Status: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions

Chronic toxicity

Chronic exposure to mists containing sulfuric acid is a cancer hazard.

ATEmix (oral)

21400 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 7.84 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Ceric Ammonium Nitrate 16774-21-3	Not Established	Not Established	Not Established
Sulfuric acid 7664-93-9	Not Established	500: 96 h Brachydanio rerio mg/L LC50 static	29: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No data is available on the product itself.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Ceric Ammonium Nitrate 16774-21-3	Not Established
Sulfuric acid 7664-93-9	Not Established

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste product or used containers according to local regulations.

Contaminated packaging

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ceric Ammonium Nitrate 16774-21-3	Not Established	-	Not Established	Not Established
Sulfuric acid 7664-93-9	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Ceric Ammonium Nitrate 16774-21-3	Not Established	Not Established	Not Established	Not Established
Sulfuric acid 7664-93-9	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Ceric Ammonium Nitrate	•

16774-21-3	
Sulfuric acid	-
7664-93-9	

14. TRANSPORT INFORMATION

DOT

Proper shipping name SULFURIC ACID <51%

UN-No 2796
Hazard Class 8
Packing group II
Reportable Quantity (RQ) 1000

IATA

Proper shipping name SULFURIC ACID <51%

UN-No 2796 Hazard Class 8 Packing group II

IMDG/IMO

Proper shipping name SULFURIC ACID <51%

UN-No 2796 Hazard Class 8 Packing group II

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** DSL/NDSL Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS** Complies **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Ceric Ammonium Nitrate 16774-21-3	1.0
Sulfuric acid	1.0

7664-93-9 SARA 311/312 Hazard Categories Yes Acute health hazard **Chronic Health Hazard** Yes Fire hazard No Sudden release of pressure hazard No **Reactive Hazard** Yes

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ceric Ammonium Nitrate 16774-21-3	Not Established	Not Established	Not Established	Not Established
Sulfuric acid 7664-93-9	1000 lb	Not Established	Not Established	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Ceric Ammonium Nitrate 16774-21-3	-	Not Established	-
Sulfuric acid 7664-93-9	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65 has classified "strong inorganic acid mists containing sulfuric acid" as a chemical known to the State of California to cause cancer. This classification applies only to "inorganic mists containing sulfuric acid" and not to sulfuric acid or sulfuric acid solutions

Chemical name	California Proposition 65	
Sulfuric acid	Carcinogen	
7664-93-9		

U.S. State Right-to-Know Regulations

Health hazard 3

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ceric Ammonium Nitrate 16774-21-3	х	Not Established	Not Established
Sulfuric acid 7664-93-9	Х	X	X
Went Clean the State of Control	16. OTHER I	NFORMATION	

Instability 1 Physical and Chemical Health hazard 3 Flammability 0 NFPA Hazards W Flammability 0 Stability 2



Health Hazard	3
Fire Hazard	0
Reactivity	2

Prepared by **Issuing Date Revision Date** Regulatory Affairs Department Apr-14-2015 Apr-30-2015

Reason for revision

New US GHS format

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet