

ACROS ORGANICS

Material Safety Data Sheet

Creation Date 24-Dec-2009

Revision Date 24-Dec-2009

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|--|---|
| Product Name | Iron(III) nitrate nonahydrate | |
| Cat No. | AC202490000; AC202490010; AC202492500 | |
| Synonyms | Ferric nitrate | |
| Recommended Use | Laboratory chemicals | |
| Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 | Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410 | Emergency Telephone Number For information in the US, call: 800-ACROS-01 For information in Europe, call: +32 14 57 52 11 Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 201-796-7100 CHEMTREC Phone Number, US: 800-424-9300 CHEMTREC Phone Number, Europe: 703-527-3887 |

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Oxidizer: Contact with combustible/organic material may cause fire. Irritating to eyes, respiratory system and skin.
Hygroscopic.

Appearance Purple

Physical State Solid

odor odorless

Target Organs Skin, Respiratory system, Eyes

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eyes Irritating to eyes.
Skin Irritating to skin. May be harmful in contact with skin.
Inhalation Irritating to respiratory system. May be harmful if inhaled.
Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects None known.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

| Component | CAS-No | Weight % |
|-------------------------------|------------|----------|
| Iron(III) nitrate nonahydrate | 7782-61-8 | >95 |
| Ferric nitrate | 10421-48-4 | - |

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point No information available.
Method No information available.

Autoignition Temperature No information available.

Explosion Limits
Upper No data available
Lower No data available

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products No information available.

Sensitivity to mechanical impact No information available.
Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical
 May ignite combustibles (wood paper, oil, clothing, etc.).

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------------|---------------------------|
| Melting Point/Range | 47°C / 116.6°F |
| Decomposition temperature °C | No information available. |
| Flash Point | No information available. |
| Evaporation Rate | negligible |
| Specific Gravity | 1.680 |
| Solubility | Soluble in water |
| log Pow | No data available |
| Molecular Weight | 404 |
| Molecular Formula | Fe N3 O9 . 9 H2 O |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Oxidizer: Contact with combustible/organic material may cause fire. Hygroscopic. |
| Conditions to Avoid | Incompatible products. Excess heat. Combustible material. Avoid dust formation. Exposure to moist air or water. Temperatures above °C. |
| Incompatible Materials | Strong oxidizing agents |
| Hazardous Decomposition Products | Nitrogen oxides (NOx) |
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions . | None under normal processing.. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------------------|--------------------|-------------|-----------------|
| Iron(III) nitrate nonahydrate | 3250 mg/kg (Rat) | Not listed | Not listed |

Irritation Irritating to eyes, respiratory system and skin

Toxicologically Synergistic Products No information available.

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Mutagenic Effects No information available.

| | |
|--|---|
| Reproductive Effects | No information available. |
| Developmental Effects | No information available. |
| Teratogenicity | No information available. |
| Other Adverse Effects | See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.. |
| Endocrine Disruptor Information | No information available |

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available..

| | |
|--------------------------------------|--------------------------|
| Persistence and Degradability | No information available |
| Bioaccumulation/ Accumulation | No information available |
| Mobility | No information available |

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|---|
| Waste Disposal Methods | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |
|-------------------------------|---|

14. TRANSPORT INFORMATION

DOT

| | |
|-----------------------------|----------------|
| UN-No | UN1466 |
| Proper Shipping Name | FERRIC NITRATE |
| Hazard Class | 5.1 |
| Packing Group | III |

TDG

| | |
|-----------------------------|----------------|
| UN-No | UN1466 |
| Proper Shipping Name | FERRIC NITRATE |
| Hazard Class | 5.1 |
| Packing Group | III |

IATA

| | |
|-----------------------------|----------------|
| UN-No | UN1466 |
| Proper Shipping Name | Ferric nitrate |
| Hazard Class | 5.1 |
| Packing Group | III |

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No UN1466
 Proper Shipping Name Ferric nitrate
 Hazard Class 5.1
 Packing Group III

15. REGULATORY INFORMATION

International Inventories

| Component | TSCA | DSL | NDSL | EINECS | ELINCS | NLP | PICCS | ENCS | AICS | CHINA | KECL |
|-------------------------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|---------------|
| Iron(III) nitrate nonahydrate | - | - | - | - | - | | X | X | X | X | - |
| Ferric nitrate | X | X | - | 233-899-5 | - | | X | X | X | X | KE-21136 X |

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
 Chronic Health Hazard No
 Fire Hazard No
 Sudden Release of Pressure Hazard No
 Reactive Hazard Yes

Clean Water Act

| Component | CWA - Hazardous Substances | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|----------------|----------------------------|-----------------------------|------------------------|---------------------------|
| Ferric nitrate | X | 1000 lb | - | - |

Clean Air Act
Not applicable

OSHA
Not applicable

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)

| Component | Hazardous Substances RQs | CERCLA EHS RQs |
|----------------|--------------------------|----------------|
| Ferric nitrate | 1000 lb | - |

California Proposition 65
This product does not contain any Proposition 65 chemicals.

State Right-to-Know

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-------------------------------|---------------|------------|--------------|----------|--------------|
| Iron(III) nitrate nonahydrate | - | X | X | - | - |
| Ferric nitrate | X | X | X | - | - |

U.S. Department of Transportation
Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
C Oxidizing materials
D2B Toxic materials



16. OTHER INFORMATION

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Tel: (412) 490-8929

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Revision Summary "****", and red text indicates revision

Disclaimer

The information provided on this Safety Data Sheet 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 MSDS