

<a href="#">Ferric Citrate</a>	<a href="#">Pricing &gt;</a>
<a href="#">Iron(III) Citrate</a>	<a href="#">Pricing &gt;</a>
<b>Linear Formula</b>	C <sub>6</sub> H <sub>5</sub> FeO <sub>7</sub>
<b>Pubchem CID</b>	61300
<b>MDL Number</b>	MFCD00013098
<b>EC No.</b>	222-536-6
<b>IUPAC Name</b>	2-hydroxypropane-1,2,3-tricarboxylate; iron(3+)
<b>SMILES</b>	C(C(=O)[O-])C(CC(=O)[O-])[C(=O)[O-]O].[Fe+3]
<b>Inchi Identifier</b>	InChI=1S/C6H8O7.Fe/c7-3(8)1-6(13,5(11)12)2-4(9)10;/h13H,1-2H2,(H,7,8)(H,9,10)(H,11,12)/q;+3/p-3
<b>Inchi Key</b>	NPFOYSMITVOQOS-UHFFFAOYSA-K
<b>Signal Word</b>	N/A
<b>Hazard Statements</b>	N/A
<b>Hazard Codes</b>	N/A
<b>Risk Codes</b>	N/A
<b>Safety Statements</b>	N/A
<b>Transport Information</b>	NONH for all modes of transport
<b>WGK Germany</b>	3

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## SAFETY DATA SHEET

Date Accessed: 05/15/2024

Date Revised: 01/15/2022

### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #3522-50-7

**Relevant identified uses of the substance:**  
Scientific research and development

Supplier details:  
American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:  
Domestic, North America +1 800-424-9300

## **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

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## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances

Synonyms : Ferric citrate

Formula :  $C_6H_5FeO_7$

Molecular weight : 244.94 g/mol

CAS-No. : 3522-50-7

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## **SECTION 4. FIRST AID MEASURES**

Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

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## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical

or carbon dioxide.  
Special hazards arising from the substance or mixture  
Carbon oxides, Iron oxides  
Advice for firefighters  
Wear self-contained breathing apparatus for  
firefighting if necessary.  
Further information  
No data available

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and  
emergency procedures  
Avoid dust formation. Avoid breathing vapours, mist or  
gas.  
For personal protection see section 8.  
Environmental precautions  
No special environmental precautions required.  
Methods and materials for containment and cleaning  
up  
Sweep up and shovel. Keep in suitable, closed  
containers for disposal.  
Reference to other sections  
For disposal see section 13.

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## **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling  
Further processing of solid materials may result in the  
formation of combustible dusts. The  
potential for combustible dust formation should be  
taken into consideration before  
additional processing occurs.  
Provide appropriate exhaust ventilation at places  
where dust is formed.  
For precautions see section 2.  
Conditions for safe storage, including any  
incompatibilities  
Keep container tightly closed in a dry and well-  
ventilated place.  
Light sensitive.  
Storage class (TRGS 510): 11: Combustible Solids  
Specific end use(s)  
Apart from the uses mentioned in section 1 no other  
specific uses are stipulated

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## **SECTION 8. EXPOSURE**

## **CONTROLS/PERSONAL PROTECTION**

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and

approved under appropriate

government standards such as NIOSH (US) or EN

166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to

use. Use proper glove

removal technique (without touching glove's outer

surface) to avoid skin contact

with this product. Dispose of contaminated gloves

after use in accordance with

applicable laws and good laboratory practices. Wash

and dry hands.

Body Protection

Choose body protection in relation to its type, to the

concentration and amount of

dangerous substances, and to the specific work-

place., The type of protective

equipment must be selected according to the

concentration and amount of the

dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where

protection from nuisance levels of

dusts are desired, use type N95 (US) or type P1 (EN

143) dust masks. Use

respirators and components tested and approved

under appropriate government

standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

a) Appearance Form: solid

b) Odour No data available

c) Odour Threshold No data available

d) pH No data available

e) Melting point/freezing point No data available

f) Initial boiling point and boiling range No data available

g) Flash point (°) No data available

h) Evaporation rate No data available

i) Flammability (solid, gas) No data available

j) Upper/lower flammability or explosive limits No data

available  
k) Vapour pressure No data available  
l) Vapour density No data available  
m) Relative density No data available  
n) Water solubility No data available  
o) Partition coefficient: n-octanol/water No data available  
p) Auto-ignition temperature No data available  
q) Decomposition temperature No data available  
r) Viscosity No data available  
s) Explosive properties No data available  
t) Oxidizing properties No data available  
Other safety information  
No data available

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity  
No data available  
Chemical stability  
Stable under recommended storage conditions.  
Possibility of hazardous reactions  
No data available  
Conditions to avoid  
No data available  
Incompatible materials  
Strong oxidizing agents  
Hazardous decomposition products  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Iron oxides  
Other decomposition products - No data available  
In the event of fire: see section 5

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects  
Acute toxicity  
No data available  
Inhalation: No data available  
Dermal: No data available  
No data available  
Skin corrosion/irritation  
No data available  
Serious eye damage/eye irritation  
No data available  
Respiratory or skin sensitisation  
No data available  
Germ cell mutagenicity  
No data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### Reproductive toxicity

No data available

No data available

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available

#### Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## SECTION 12. ECOLOGICAL INFORMATION

#### Toxicity

No data available

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

##### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging  
Dispose of as unused product.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT (US)  
Not dangerous goods  
IMDG  
Not dangerous goods  
IATA  
Not dangerous goods

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## **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components  
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  
SARA 313 Components  
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.  
SARA 311/312 Hazards  
No SARA Hazards  
Massachusetts Right To Know Components  
No components are subject to the Massachusetts Right to Know Act.  
Pennsylvania Right To Know Components  
Iron(III) citrate CAS-No.  
3522-50-7  
Revision Date  
1989-08-11

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## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and

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