

1. Identification

Product name	FerroOrange (Fe ²⁺ indicator)
Product catalog number	C8004
CAS number	Not available
Recommended use	For research use only. Not for human or veterinary diagnostic or therapeutic use.
Company	APExBIO Technology 7505 Fannin Street, Suite 442, Houston, TX 77054, USA Tel: +1-832-696-8203 Emergency phone: +1-855-577-7998

2. Hazard identification

OSHA Hazards	Not classified as hazardous.
Pictogram(s)	Not applicable
Signal word	Not applicable
Hazard statements	Not applicable
Precautionary statements	Handle in accordance with good industrial hygiene and safety practice.
Hazards not otherwise classified (HNOC)	None known

3. Composition/information on ingredients

Chemical name	FerroOrange (Fe ²⁺ indicator)
Common name and synonyms	FerroOrange (Fe ²⁺ indicator)
CAS number	Not available
Impurities and stabilizing additives	No stabilizing additives or impurities contributing to the classification are known.
Formula	Not available
Molecular weight	Not available

4. First-aid measures

Inhalation	Move to fresh air. Seek medical advice if symptoms occur.
Skin contact	Wash with soap and plenty of water. Seek medical advice if irritation develops.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Ingestion	Rinse mouth. Do not induce vomiting. Seek medical advice if unwell.
Most important symptoms/effects, acute	No specific acute symptoms are known.
Most important symptoms/effects, delayed	No delayed effects are known. Monitor for persistent or worsening symptoms.
Immediate medical attention and special treatment needed	Treat symptomatically. No specific antidote is known.

5. Fire-fighting measures

Flammability	No flammability classification is assigned in Section 2. Product-specific flammability test data are not available.
Suitable extinguishing media	Use extinguishing media appropriate for the surrounding fire.
Unsuitable extinguishing media	No specific information available.
Specific hazards arising from the chemical	Product-specific combustion data are not available. Hazardous decomposition products may form under fire conditions.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective equipment when conditions warrant.

6. Accidental release measures

Personal precautions	Keep unnecessary personnel away. Wear suitable personal protective equipment.
Environmental precautions	Prevent release to drains, surface water, soil, and the environment where safe to do so.
Methods for containment and cleanup	Use containment and cleanup methods appropriate to the physical form of the product.

7. Handling and storage

Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Avoid formation of aerosols, mist, vapor, or dust as applicable. Wash thoroughly after handling.
Conditions for safe storage	Keep container tightly closed. This product should be stored at -20°C away from light and moisture. Stable for 1 year in accordance with the product label.

8. Exposure controls/personal protection

Control parameters / occupational exposure limits	No product-specific occupational exposure limit has been established from the available information. Perform a task-specific exposure assessment and observe any applicable component, workplace, or local limits.
Engineering controls	Use closed handling, local exhaust ventilation, or other engineering controls as appropriate to minimize dust, aerosol, mist, or vapor. Maintain accessible eyewash facilities and a safety shower in the work area.
Eye/face protection	Wear appropriate safety glasses with side shields or chemical splash goggles meeting applicable ANSI/ISEA Z87.1 requirements. Use a face shield in addition to goggles where splashing or high-energy exposure is possible.
Hand protection	Wear suitable protective gloves selected for the material, task, and exposure duration. Inspect gloves before use. Remove gloves without touching the contaminated outer surface and dispose of or clean them in accordance with the manufacturer's instructions and applicable requirements.
Skin and body protection	Wear a laboratory coat and protective clothing appropriate to the form, concentration, quantity, and handling operation. Use impervious protective clothing where the exposure assessment identifies a splash or contamination risk.
Respiratory protection	Respiratory protection is not normally required where exposure is adequately controlled. If the exposure assessment indicates that respiratory protection is needed, use a NIOSH-approved respirator appropriate for the form and level of exposure and comply with OSHA 29 CFR 1910.134.
Hygiene measures	Wash hands and exposed skin thoroughly after handling and before eating, drinking, smoking, or leaving the work area. Remove contaminated clothing and wash it before reuse. Do not eat, drink, or smoke in handling areas.
Environmental exposure controls	Prevent uncontrolled release to drains, surface water, soil, and the environment. Contain and clean releases promptly using the methods in Section 6.

9. Physical and chemical properties

Physical state	No data available
Appearance	No data available
Color	No data available
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting/freezing point	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	See Section 2 and Section 5.
Lower and upper explosion/flammability limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Particle characteristics	No data available

10. Stability and reactivity

Reactivity	No specific reactivity data are available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions are expected under recommended conditions of use and storage.
Conditions to avoid	Avoid conditions inconsistent with the recommended storage and handling instructions.
Incompatible materials	No specific information available.
Hazardous decomposition products	Hazardous decomposition products may form under fire conditions.

11. Toxicological information

Likely routes of exposure	Inhalation, skin contact, eye contact, and ingestion.
Symptoms related to the toxicological characteristics	No product-specific symptom data are available.
Delayed, immediate and chronic effects	Immediate effects are described by the applicable acute, irritation, and sensitization classifications below. No delayed or chronic effects are known.
Numerical measures of toxicity	Quantitative toxicity data are not available.
Interactive effects	No information on toxicological interactions is available.

Carcinogenicity listings

No data available

12. Ecological information**Ecotoxicity**

Product-specific ecotoxicity data are not available.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

13. Disposal considerations**Disposal methods**

Dispose of contents and container through a licensed waste contractor in accordance with applicable local, state/provincial, federal, and national regulations.

14. Transport information**DOT (US)**

Not regulated for transport as supplied.

IMDG

Not regulated for transport as supplied.

IATA

Not regulated for transport as supplied.

TDG (Canada)

Not regulated for transport as supplied.

15. Regulatory information**SARA 302 Components**

SARA 302: Based on available product information, no chemicals in this material are expected to be subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: Based on available product information, this material is not expected to contain chemical components with known CAS numbers at concentrations exceeding the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA 311/312 hazard category is identified based on the OSHA classification in Section 2.

Massachusetts Right-to-Know Components

Based on available product information, no components are expected to be subject to the Massachusetts Right-to-Know requirements.

Pennsylvania Right-to-Know Components

Based on available product information, no components are expected to be subject to the Pennsylvania Right-to-Know Law.

New Jersey Right-to-Know Components

Based on available product information, no components are expected to be subject to the New Jersey Right-to-Know Act.

California Proposition 65

Based on available product information, this product is not expected to contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

16. Other information**Prepared by**

APEX BIO Technology

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Scope and limitations

This information is intended only as guidance for safe handling, use, processing, storage, transportation, disposal, and release. It is not a warranty or product-quality specification. It applies only to the material identified in this SDS and may not apply when the material is combined with other materials or used in another process unless expressly stated.

User responsibility

This material should be handled only by appropriately trained and experienced personnel using facilities, procedures, and protective equipment suitable for the work. The user is responsible for performing a task-specific risk assessment, determining safe conditions of use, and complying with all applicable laws and regulations.

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To the extent permitted by applicable law, APExBIO Technology and its affiliates shall not be liable for damage resulting from handling, use, or contact with this product where the product is used outside the conditions and limitations stated in this SDS and the applicable product documentation.

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