

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (5N) 99.999% Iron(III) Oxide Monohydrate

**Product Code:** FE3-OX-05-P.1HYD

**CAS Number:** 51274-00-1

**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:  
+1 800-424-9300

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## SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

The substance is not classified according to the Globally Harmonized System (GHS).

Label elements

GHS label elements: not applicable

Hazard pictograms: not applicable

Signal word: not applicable

Hazard statements: not applicable

Precautionary statements

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

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0  
Reactivity = 0

HMIS-ratings (scale 0 - 4)  
Health = 0  
Fire = 0  
Reactivity = 0

Other hazards  
Results of PBT and vPvB assessment  
PBT: Not applicable  
vPvB: Not applicable.

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

Chemical characterization: Substances  
CAS No. Description:  
51274-00-1 Iron(III) oxide monohydrate, yellow (99.9+%-Fe)

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

Description of first aid measures  
General information: No special measures required.  
After inhalation: Supply fresh air; consult doctor in case of complaints.  
After skin contact: Immediately rinse with water.  
After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.  
After swallowing: If symptoms persist consult doctor.  
Information for doctor: N/A  
Most important symptoms and effects, both acute and delayed No further relevant information available.  
Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

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### **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media  
Suitable extinguishing agents: CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Special hazards arising from the substance or mixture No further relevant information available.  
Advice for firefighters: N/A  
Protective equipment: No special measures required.

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

Personal precautions, protective equipment and emergency procedures: Not required.  
Environmental precautions: No special measures required.  
Methods and material for containment and cleaning up:  
Dispose contaminated material as waste according to item 13.

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## SECTION 7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: No special measures required.

Information about protection against explosions and fires: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with limit values that require monitoring at the workplace: Not required.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Powder

Color: Yellow

Odor: Odorless

Odor threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: >1000 °C (>1832 °F)

Boiling point/Boiling range: no data °C

Flash point: Not applicable.

Flammability (solid, gaseous): Product is not flammable

Ignition temperature:

Decomposition temperature: Not determined.

Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.  
Upper: Not determined.  
Vapor pressure: no data hPa  
Density: Not determined.  
Relative density Not determined.  
Vapor density Not applicable.  
Evaporation rate Not applicable.  
Solubility in / Miscibility with  
Water: Insoluble.  
Partition coefficient (n-octanol/water): Not determined.  
Viscosity:  
Dynamic: Not applicable.  
Kinematic: Not applicable.  
Solvent content:  
Organic solvents: 0.0 %  
VOC content: 0.0 g/l / 0.00 lb/gl  
Solids content: 100.0 %  
Other information No further relevant information available.

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

Reactivity: No further relevant information available.  
Chemical stability:  
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.  
Possibility of hazardous reactions: No dangerous reactions known.  
Conditions to avoid: No further relevant information available.  
Incompatible materials: No further relevant information available.  
Hazardous decomposition products: No dangerous decomposition products known.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects  
Acute toxicity: N/A  
Primary irritant effect:  
on the skin: No irritant effect.  
on the eye: No irritating effect.  
Sensitization: No sensitizing effects known.  
Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.  
  
Carcinogenic categories  
IARC (International Agency for Research on Cancer): Substance is not listed.  
NTP (National Toxicology Program): Substance is not listed.  
OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed.

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity  
Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods:

Recommendation: Disposal must be made according to official regulations.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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## **SECTION 14. TRANSPORT INFORMATION**

UN-Number

DOT, ADN, IMDG, IATA: not regulated

UN proper shipping name

DOT, ADN, IMDG, IATA: not regulated

Transport hazard class(es)

DOT, ADN, IMDG, IATA

Class: not regulated

Packing group

DOT, IMDG, IATA: not regulated

Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code: Not applicable.

UN "Model Regulation": not regulated

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## **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA:

Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):  
Substance is not listed.

TSCA (Toxic Substances Control Act):  
Substance is listed.

Proposition 65  
Chemicals known to cause cancer:  
Substance is not listed.

Chemicals known to cause reproductive toxicity for females:  
Substance is not listed.

Chemicals known to cause reproductive toxicity for males:  
Substance is not listed.

Chemicals known to cause developmental toxicity:  
Substance is not listed.

Carcinogenic categories

EPA (Environmental Protection Agency)  
Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)  
Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)  
Substance is not listed.

HS label elements: not applicable  
Hazard pictograms: not applicable  
Signal word: not applicable  
Hazard statements: not applicable

Precautionary statements

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

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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 conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED

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