

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Ferric Chloride 30-32%

CAS number 7705-08-0

Synonyms Iron (III) Chloride

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral toxicity

Skin Corrosion/irritation

Serious eye damage/eye irritation

Category 1

Skin sensitization

Category 1

Category 1

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements

Harmful if swallowed Causes skin irritation

May cause an allergic skin reaction

Causes serious eye damage

Precautionary statements

Prevention Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product.

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace.

Skin IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: get medical advice/attention.

Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

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

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	-	7732-18-5	68%
Ferric chloride	Iron(III) chloride	7705-08-0	32%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Move to fresh air. If breathing is difficult, give oxygen. Get medical attention

immediately if symptoms occur.

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In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical

attention.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes.

If swallowed Do not induce vomiting. Call a physician or Poison Control Center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes eye burns. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizzines, lightheadednes, chest pain, muscle pain or flushing

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to

local circumstances and the surrounding

environment. Foam. Water spray. Carbon dioxide

(CO2). Dry chemical.

Unsuitable extinguishing media No information available

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

5.3 Special 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.

5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

Explosion limits

Upper No data availableLower No data available

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available
No information available

NFPA

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2	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adeugate ventilation. Use personal protective equipment.

6.2 Environmental precautions

See section 12 for additional ecological information.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Ensure adequate ventilation. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing.

Hygiene measures

Handle in accordance with good industrial practices and hygiene.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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

Incompatibilities

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Ferric chloride	(Vacated) TWA	1 mg/m3

US. ACGIH Threshold Limit Values

Component	Type	Value
Ferric chloride	TWA	1 mg/m3

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US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Ferric chloride	TWA	1 mg/m3

8.2 Exposure controls

Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 19 CFR 1910.133 or European Standard EN166.

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Dark brown

No information available Odor No information available Odor Threshold рΗ No information available No information available Melting Point/Range Boiling Point/Range No information available No information available **Evaporation Rate** Flammability (solid) No information available Flammability or explosive limit No information available No information available Upper

Lower No information available
Vapor Pressure No information available

Vapor Density 1.45

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Density No information available

Solubility Soluble in water

Partition coefficient; n-octanol/water No information available **Autoignition Temp** No information available **Decomposition Temp** No information available No information available Viscosity Molecular Formula No information available Molecular Weight No information available No information available VOC Content(%) No information available Oxidizing properties

9.2 Other safety information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing

10.4 Conditions to avoid

Incompatible products

10.5 Incompatible materials

strong oxidizing agents

10.6 Hazardous decomposition products

None under normal use conditions

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

No information available

Skin corrosion/irritation

Irritating to skin

Serious eye damage/eye irritation

Causes eye burns

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Respiratory or skin sensitization

May cause sensitization by skin contact

Germ cell mutagenicity

No information available

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ferric chloride	7705-08-0	Not listed				

Specific target organ toxicity - single exposure

None known

Specific target organ toxicity - repeated exposure

None known

Reproductive toxicity

No information available

Chronic effects

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
	LC50	Freshwater Fish	20.95 - 22.56 mg/L - 96h
Ferric chloride	LC50	Freshwater Fish	20.26 mg/L - 96h
Ferric chloride	LC50	Water Flea	9.6 mg/L - 48h
	LC50	Water Flea	27.9 mg/L - 48h

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

Log Pow: -4

12.5 Results of PBT and vPvB assessment

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No information available

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 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.

SECTION 14: Transport information

DOT (US)

UN-no. UN2582

Proper Shipping Name FERRIC CHLORIDE, SOLUTION

Hazard Class 8
Packing Group III

IMDG

UN-no. UN2582

Proper Shipping Name FERRIC CHLORIDE, SOLUTION

Hazard Class 8
Packing Group III

IATA

UN-no. UN2582

Proper Shipping Name FERRIC CHLORIDE, SOLUTION

Hazard Class 8
Packing Group III

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed - Hazardous Substances RQ: 1000 lb

SARA 304 Emergency release notification

Not regulated

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See section 2 for more information

SARA 313 (TRI reporting)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Listed

US. New Jersey Worker and Community Right-to-Know Act

Listed

US. Pennsylvania Worker and Community Right-to-Know Law

Listed

California Proposition 65

Not listed

SECTION 16: Other information

Issue date: 07/29/2024

Revision 0

SECTION 17: Disclaimer

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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.

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