



MSDS OF FERRIC CHLORIDE ANHYDROUS

Material Safety Data Sheet Iron(III) chloride, anhydrous, 98%

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Iron(III) chloride, anhydrous, 98%
Catalog Numbers: 16943-0000, 16943-0010, 16943-0025, 16943-0050
Synonyms: Ferric chloride

Company Identification:

VINAYAK INDUSTRIES

PLOT-3/11, GIDC, SARIGAM

ST-BHILAD. GUJRAT.

INDIA-396155

Company Phone Number: +912602781067

Emergency Phone Number: +919898615513

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS# Chemical Name: % EINECS# 7705-08-0 Iron(III) chloride, anhydrous 98% 231-729-4
Hazard Symbols: 16943-0000, 16943-0010, 16943-0025, 16943-0050
Risk Phrases: Ferric chloride

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW Harmful if swallowed. Causes burns. Hygroscopic (absorbs moisture from the air). Potential Health Effects

Eye: Causes eye burns.
Skin: Causes skin burns.
Ingestion: Harmful if swallowed. Causes gastrointestinal tract burns.
Inhalation: Causes chemical burns to the respiratory tract. Chronic.



SECTION 4 - FIRST AID MEASURES

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give Notes to Physician: Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance noncombustible.
Extinguishing Media:	Use extinguishing media most appropriate for the surrounding fire. Use water spray, dry chemical, carbon dioxide, or chemical foam.

SECTION 6 - ACCIDENTAL RELEASE MEASURES GENERAL INFORMATION

Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 - HANDLING AND STORAGE HANDLING

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. Storage: Store in a cool, dry place. Store in a tightly closed container. Corrosives area.



SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations Exposure Limits.

CAS# 7705-08-0

Belgium - TWA: (iron salts (soluble)): 1 mg/m³ VLE (as Fe)

Malaysia: (iron salts (soluble)): 1 mg/m³ TWA (as Fe)

Netherlands: (iron salts (soluble)): 1 mg/m³ MAC (as Fe)

Spain: (iron salts (soluble)): 1 mg/m³ VLA-ED (as Fe)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: 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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Color:	dark gray to black
Odor:	odorless
pH:	Not available
Vapor Pressure:	1hPa @20 deg C
Viscosity:	Not available
Boiling Point:	316 deg C @760mmHg (600.80°F)
Freezing/Melting Point:	300 deg C(decom)
Autoignition Temperature:	Not available
Flash Point:	Not available
Explosion Limits:	Lower: Not available
Explosion Limits:	Upper: Not available
Decomposition	
Temperature:	Solubility in water: 920 g/l (20°C)
Specific Gravity/Density:	2.8 - 2.9
Molecular Formula:	FeCl ₃
Molecular Weight:	162.21



SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to Avoid:	Incompatible materials, dust generation, excess heat, exposure to moist air or water. Incompatibilities with Other Materials Strong oxidizing agents, alkali metals, allyl chloride, ethylene oxide, potassium, sodium. Hazardous Decomposition Products Hydrogen chloride, oxides of iron. Hazardous Polymerization Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:	CAS# 7705-08-0: LJ9100000
LD50/LC50	
RTECS	
CAS# 7705-08-0:	Oral, mouse: LD50 = 200 mg/kg
Oral, rat:	LD50 = 316 mg/kg
Carcinogenicity:	Iron(III) chloride, anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	TLm Daphnia 15 ppm/96 hr fresh water/ conditions of bioassay not specified.
Other:	Avoid entering into waters or underground water.
Other:	-4

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.



SECTION 14 - TRANSPORT INFORMATION

IATA IMO RID/ADR

Shipping Name:	FERRIC CHLORIDE, ANHYDROUS FERRIC CHLORIDE, ANHYDROUS FERRIC CHLORIDE, ANHYDROUS
Hazard Class:	8
UN Number:	1773
Packing Group:	III
USA RQ:	CAS# 7705-08-0: 1000 lb final RQ; 454 kg final RQ

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:	C
Risk Phrases:	R 22 Harmful if swallowed.
R 34 Causes burns.	
Safety Phrases:	S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). WGK (Water Danger/Protection)
CAS# 7705-08-0::	1 Canada

CAS# 7705-08-0 is listed on Canada's DSL List US Federal TSCA

CAS# 7705-08-0 is listed on the TSCA Inventory.



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Vinayak Industries

SECTION 16 – OTHER INFORMATION

Revisions were made in Sections: General revision. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

MSDS Creation Date: 7/16/1996
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