

### CAS No: 7705-08-0 MSDS

### MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Substance
	:
CAS No	: 7705-08-0
Product code	: 03817
Formula	: FeCl3
Synonyms	: Iron (III) Chloride, Iron trichloride, Molysite
Synonyms	. Iron (iii) Chionde, iron thomore, morysite

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture

: Industrial. For professional use only.

### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

#### 1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye H318 irritation, Category 1 Acute toxicity (oral), H302 Category 4 Skin corrosion/irritation, H315 Category 2 Corrosive to metals, H290 Category 1

Full text of classification categories and H statements : see section 16

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22 Xi; R41 Xi; R38 Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (E	C) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS05 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H290 - May be corrosive to metals</li> <li>H302 - Harmful if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H318 - Causes serious eye damage</li> </ul>
Precautionary statements (CLP)	<ul> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> </ul>

### 2.3. Other hazards

No additional information available

JECH	ION 3: Composition/information			
3.1.	Substance			
Name		: FERRIC CHLORIDE	ANHYDROUS	
CAS N	lo	: 7705-08-0		
<sup>-</sup> ull te	xt of R- and H-phrases: see section	ו 16		
3.2.	Mixture			
Not ap	pplicable			
SECTI	ION 4: First aid measures			
4.1.	Description of first aid measu	res		
First-a	id measures after inhalation		esh air and keep comfortable for breathing. Give oxyge recessary. Get medical advice/attention.	en or
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First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	es
6.1. Personal precautions, protectiv	ve equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders Protective equipment	· Lies personal protective equipment as required
Emergency procedures	: Use personal protective equipment as required. : Ventilate area.
Emergency procedures	
6.2. Environmental precautions	
Avoid release to the environment.	
C.2 Motherale and metavial few service	inners and electric un
6.3. Methods and material for conta	
6.3. Methods and material for conta Methods for cleaning up	<ul> <li>Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.</li> </ul>
	: Absorb spillage to prevent material damage. Soak up spills with inert solids, such as
Methods for cleaning up	: Absorb spillage to prevent material damage. Soak up spills with inert solids, such as
Methods for cleaning up         6.4.       Reference to other sections	: Absorb spillage to prevent material damage. Soak up spills with inert solids, such as
Methods for cleaning up <b>6.4.</b> Reference to other sections No additional information available	: Absorb spillage to prevent material damage. Soak up spills with inert solids, such as
Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage	: Absorb spillage to prevent material damage. Soak up spills with inert solids, such as
Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling	<ul> <li>Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.</li> <li>May be corrosive to metals.</li> <li>Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation</li> </ul>
Methods for cleaning up6.4.Reference to other sectionsNo additional information availableSECTION 7: Handling and storage7.1.Precautions for safe handlingAdditional hazards when processed	<ul> <li>Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.</li> <li>May be corrosive to metals.</li> </ul>
Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures	<ul> <li>Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.</li> <li>May be corrosive to metals.</li> <li>Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.</li> <li>Do not eat, drink or smoke when using this product. Wash thoroughly after handling.</li> </ul>
Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling	<ul> <li>Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.</li> <li>May be corrosive to metals.</li> <li>Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.</li> <li>Do not eat, drink or smoke when using this product. Wash thoroughly after handling.</li> </ul>

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### Packaging materials

: Store in corrosive resistant/... container with a resistant inner liner.

### 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

8.2. Exposure controls			
Hand protection	: Protective gloves		
Eye protection	: Chemical goggles or safety glasses		
Skin and body protection	: Wear suitable protective clothing		
Respiratory protection	: Wear respiratory protection		
<b>SECTION 9: Physical and chemical prop</b>	erties		
9.1. Information on basic physical a	nd chemical properties		
Physical state	: Solid		
Colour	: Dark green.		
Odour	: slight odor of hydrochloric acid.		
Odour threshold	: No data available		
рН	: 10.1 at 10 g/l at 20 °C		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: -63 °C		
Freezing point	: No data available		
Boiling point	: 139 °C		
Flash point	: 30 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	:8 hPa at 20 °C		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Density	: 0.91 g/cm <sup>3</sup>		
Solubility	: Water: Soluble in water		
Log Pow	: 0.055		
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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	:1.9 - 11.8 vol %

9.2.	Other information
No additi	onal information available
SECTIO	N 10: Stability and reactivity
10.1.	Reactivity
No additi	onal information available
10.2.	Chemical stability
No additi	onal information available
10.3.	Possibility of hazardous reactions
No additi	onal information available
10.4.	Conditions to avoid
Direct su	nlight. Extremely high or low temperatures.
10.5.	Incompatible materials
metals. N	lay be corrosive to metals.
10.6.	Hazardous decomposition products
	onal information available
SECTIO	11: Toxicological information
11.1.	Information on toxicological effects
Acute to	icity : Oral: Harmful if swallowed.

Skin corrosion/irritation	:	Causes skin irritation. pH: 10.1 at 10 g/l at 20 °C
Serious eye damage/irritation	:	Causes serious eye damage. pH: 10.1 at 10 g/l at 20 °C
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified

# FERRIC CHLORIDE ANHYDROUS Safety Data Sheet

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Aspiration hazard	: Not classified	
Potential adverse human health effects and symptoms	: Harmful if swallowed.	
SECTION 12: Ecological information		
12.1. Toxicity		
No additional information available		
<b>12.2. Persistence and degradability</b> No additional information available		
12.3. Bioaccumulative potential		
12.3. Bioaccumulative potential FERRIC CHLORIDE ANHYDROUS (770	F 09 0)	
Log Pow	0.055	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB asses	sment	
No additional information available		
12.6. Other adverse effects		

No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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Proper Shipping Name (IATA)	: FERRIC CHLORIDE, ANHYDROUS		
Proper Shipping Name (IMDG)	: FERRIC CHLORIDE, ANHYDROUS		
Proper Shipping Name (ADR)	: FERRIC CHLORIDE, ANHYDROUS		
14.2. UN proper shipping name			
UN-No. (RID)	: Not regulated		
	•		
UN-No.(ADN)	: Not regulated		
UN-No.(IATA)	: 1773		
UN-No. (IMDG)	: 1773		
UN-No. (ADR)	: 1773		
14.1. UN number			

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according to Regulation (EC) No. 1907/2006 (REACH)	with its amendment Regulation (EC) No. 453/2010
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
Transport document description (ADR)	: UN 1773 FERRIC CHLORIDE, ANHYDROUS, 8, III, (E)
Transport document description (IMDG)	: UN 1773 FERRIC CHLORIDE, ANHYDROUS, 8, III
Transport document description (IATA)	: UN 1773 FERRIC CHLORIDE, ANHYDROUS, 8, III
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8
IMDG	
Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: III
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

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	14.6.	<b>Special</b>	precautions	for	user

- Overland transport	
Classification code (ADR)	: C2
Special provision (ADR)	: 590
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Hazard identification number (Kemler No.)	: 80
Orange plates	80 1773
	1//3
Tunnel restriction code (ADR)	: E
EAC code	: 2X
- Transport by sea	
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
MFAG-No	: 157
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y845
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 860
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 864
CAO max net quantity (IATA)	: 100kg
ERG code (IATA)	: 8L
- Inland waterway transport	
Not regulated	
- Rail transport	

Not regulated

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#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

### Not applicable

#### SECTION 15: Regulatory information

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

### 15.1.1. EU-Regulations

### No REACH Annex XVII restrictions

FERRIC CHLORIDE ANHYDROUS is not on the REACH Candidate List FERRIC CHLORIDE ANHYDROUS is not on the REACH Annex XIV List

#### 15.1.2. National regulations

Germany	
VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 515)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	<ul> <li>R10 <h290;h302;h315;h318>; Emergency management guidelines for the storage of flammable liquids must be followed</h290;h302;h315;h318></li> </ul>

: Young people below the age of 18 years are not allowed to use the product

**Recommendations Danish Regulation** 

#### 15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

#### Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H290	May be corrosive to metals	
H302	Harmful if swallowed	
H315	Causes skin irritation	

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H318	Causes serious eye damage
R22	Harmful if swallowed
R38	Irritating to skin
R41	Risk of serious damage to eyes
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product