



## MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: FERRIC CHLORIDE ANHYDROUS

CAS Number: 7705-08-0

**1. IDENTIFICATION:**

**Product Code** : 95004, 90165, 90409, 94111

**Company Name** : ADVENT CHEMBIO PRIVATE LIMITED

**Address** : W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,  
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**Company Phone Number** : +91 77770 84837

**2. HAZARDS IDENTIFICATION:****Hazard classification****Physical hazards**

**Corrosive to Metals** : Category 1

**Health hazards**

**Acute toxicity, Oral** : Category 4

**Skin irritation** : Category 2

**Serious eye damage** : Category 1

**Labels elements** :

**Hazard symbol** :



**Signal word** : Danger

**Hazard statement** : May be corrosive to metals.  
: Harmful if swallowed.  
: Causes skin irritation.  
: Causes serious eye damage.

**Precautionary statement**

**Prevention** : Obtain special instructions before use.  
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Keep container tightly closed. Ground/ bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools. Take precautionary measures against static discharge.

**Response** : IF exposed or concerned: Get medical advice/ attention.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/



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	shower.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Storage	: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Disposal	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Ferric Chloride Anhydrous	7705-08-0	96.0 – 98.0 %	Yes

## 4. FIRST AID MEASURES:

General information	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	: Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation	: Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
Skin contact	: Get medical attention if symptoms persist.
Eye contact	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Swallowed	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effects, acute and delayed	: Immediately make victim drink water (two glasses at most). Consult a physician.
Indication of immediate medical attention and special treatment needed	: (see section 2.) and/or in section 11
	: No data available.



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**5. FIRE FIGHTING MEASURES:**

**General information** : No data available.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media** : Water spray, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.

**Specific hazards arising from the chemical** : Hydrogen chloride gas Iron oxides Combustible. Development of hazardous combustion gases or vapors possible in the event of fire.

**Special protective equipment and precautions for firefighters**

**Special firefighting procedures** : Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

**Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. ACCIDENTAL RELEASE MEASURES:**

**Personal precautions, protective equipment and emergency procedures** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up** : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental precautions** : Do not contaminate water sources or sewer. Avoid discharge into drains, water courses or onto the ground.

**7. HANDLING AND STORAGE:**

**Precautions for safe handling** : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

Protection / face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities** : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal.



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**8. EXPOSURE CONTROLS PERSONAL PROTECTION:****Control parameters**

**Occupational exposure limits** : No data available.

**Appropriate engineering controls** : No data available.

**Individual protection measures, such as personal protective equipment**

**General information** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

**Eye/face protection** : Wear safety glasses with side shields (or goggles).

**Hand protection** : Chemical resistant gloves.

**Other** : Wear suitable protective clothing.

**Respiratory protection** : In case of inadequate ventilation use suitable respirator.

**Hygiene measures** : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance** : Yellowish brown to dark brown deliquescent lumps or wet cake.

**Odor** : pungent

**Solubility** : Miscible in water.

**Formula** :  $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$

**Molecular Weight** : 270.3 g/mol

**Specific Gravity** : 2.800 g/cm<sup>3</sup> at 25°C

**pH** : No data available.

**% Volatiles by volume @ 21C (70F)** : No data available.

**Boiling Point** : Decomposes below the boiling point.

**Melting Point** : 306°C

**Flash Point** : Not applicable.



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Vapor Density (Air=1) : 5.60  
Vapor Pressure (mm Hg) : < 1 hPa at 20 °C  
Evaporation Rate (BuAc=1) : No data available.

**10. STABILITY AND REACTIVITY:**

The following applies in general to flammable organic substances and mixtures: in

**Reactivity** : correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

**Chemical stability** : Material is stable under ambient conditions..

**Possibility of hazardous reactions** : Risk of explosion with: Alkali metals Ethylene oxide Violent reactions possible with: Aluminum with Heat. Copper metals Light metals Generates dangerous gases or fumes in contact with: Water.

**Conditions to avoid** : No data available.

**Incompatible materials** : No data available.

**Hazardous decomposition products** : In the event of fire: see section 5

**11. TOXICOLOGICAL INFORMATION:****Information on likely routes of exposure**

**Ingestion** : No data available.

**Inhalation** : No data available.

**Skin contact** : Causes mild skin irritation

**Eye contact** : Causes serious eye irritation.

**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

**Oral Product** : LD 50 Mouse - female - 1.300 mg/kg

**Dermal Product** : LD 50 Rat - male and female - > 2.000 mg/kg

**Inhalation Product** : No data available.

**Repeated dose toxicity Product** : No data available.

**Skin corrosion/irritation Product** : Irritating to skin.

**Serious eye damage/eye irritation Product** : Causes serious eye damage.



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Respiratory or skin sensitization Product	: Not a skin sensitizer.
Carcinogenicity Product	: This substance has no evidence of carcinogenic properties
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No carcinogenic components identified.
US. National Toxicology Program (NTP) Report on Carcinogens	: No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050	: No carcinogenic components identified.
Germ cell mutagenicity	
In vitro Product	: No data available.
Reproductive toxicity Product	: No components toxic to reproduction.
Specific target organ toxicity - single exposure Product	: Not known.
Specific target organ toxicity - repeated exposure Product	: None known.
Aspiration hazard Product	: No data available.
Other effects	: None known.

**12. ECOLOGICAL INFORMATION:****Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product	: No data available.
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Aquatic invertebrates Product	: No data available.
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**Chronic hazards to the aquatic environment**

Fish Product	: No data available.
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Aquatic invertebrates Product	: No data available.
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Toxicity to Aquatic Plants Product:	: No data available.
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**Persistence and degradability**

Biodegradation Product	: readily biodegradable.
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**BOD/COD ratio Product** : No data available.

**Bioaccumulative potential**

**Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.

**Partition coefficient n-octanol / water (log Kow) Product** : No data available.

**Mobility in soil** : No data available.

**Other adverse effects** : No data available.

**13. DISPOSAL CONSIDERATION:**

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

**Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

**14. TRANSPORT INFORMATION:**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	UN 1773	Ferric Chloride Anhydrous	8	III	Yes
<b>IMDG</b>	UN 1773	Ferric Chloride Anhydrous	8	III	Yes
<b>IATA</b>	UN 1773	Ferric Chloride Anhydrous	8	III	No

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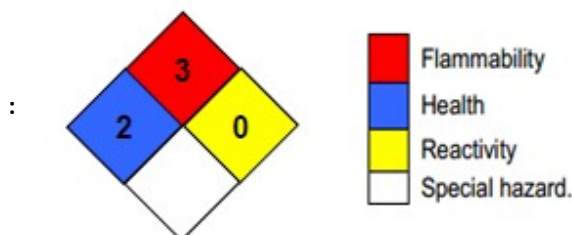
CAS Number: 7705-08-0

**15. REGULATORY INFORMATION:**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  
Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. OTHER INFORMATION:**

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 16/04/2025

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