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MATERIAL SAFETY DATA SHEET

Version :01

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, NAVI MUMBAI - 400 701.	
E-mail	sales@adventchembio.com	
WEBSITE	www.adventchembio.com	
Company Phone Number	022-27690837	

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



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3. COMPOSITION/ INFORM Ingredient	IATION ON INGRADIENTS: CAS Number	Percent	Hazardous	
Other hazards which do notThis substance/mixture contains no components considered to be either bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative levels of 0.1% or higher.			•	
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.		
Storage	 Store in a dry & well-ventilated place. Keep container tightly closed. Containers wh opened must be carefully resealed and kept upright to prevent leakage. 			
	present and easy to do. Con	y with water for several minute tinue rinsing. y call a POISON CENTER or doctor,		

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



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5. FIRE FIGHTING MEASUR	ES:
General information	: No data available.
Suitable (and unsuitable) ext	tinguishing 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 equipmen	and precautions for firefighters
Special firefighting procedures	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fightingthe 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 M	IEASURES:
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 Environmental precautions	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved. 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 Conditions for safe storage,	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. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry,
including any incompatibilities	 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 measured	ures, such as personal protective equipment
General information Eye/face protection	 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. 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 CHEMIC	CAL PROPERTIES:
Appearance	: Yellowish brown to dark brown deliquescent lumps or wet cake.
Odor	: pungent
Solubility	: Miscible in water.
Formula	: FeCl3.6H2O
Molecular Weight	: 270.3 g/mol
Specific Gravity	: 2.800 g/cm3 at 25°C
рН	: 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 REACTIV	Υ:
Reactivity	The following applies in general to flammable organic substances and mixtures: in : 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 Germ cell mutagenicity	:	No carcinogenic components identified.
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 INFORMAT		1:

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product	:	No data available.
Aquatic invertebrates Product Chronic hazards to the aquati	: ic ei	No data available. nvironment
Fish Product	:	No data available.
Aquatic invertebrates Product	:	No data available.
Toxicity to Aquatic Plants Product:	:	No data available.
Persistence and degradability	/	
Biodegradation Product	:	readily biodegradable.



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BOD/COD ratio Product	:	No data available.
Bioaccumulative potential		
Bioconcentration factor (BCF) Product Partition coefficient n-	:	No data available on bioaccumulation.
octanol / water (log Kow) Product	:	No data available.
Mobility in soil	:	No data available.
Other adverse effects	:	No data available.
13. DISPOSAL CONSIDERAT	ION:	

Disposal instructions	:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal
Contaminated packaging	:	recommendations are based on uncontaminated material. 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
DOT	UN 1773	Ferric Chloride	8	III	No
		Anhydrous			
IMDG	UN 1773	Ferric Chloride	8	III	No
		Anhydrous			
ΙΑΤΑ	UN 1773	Ferric Chloride	8	111	No
		Anhydrous			



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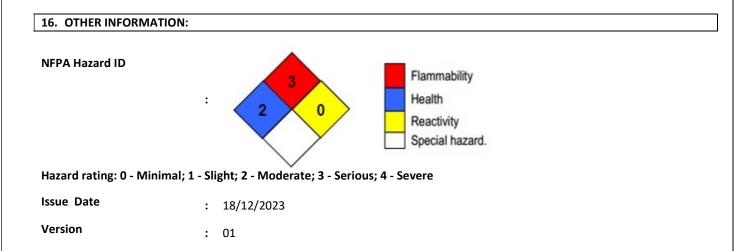
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15. REGULATORY INFORMATION:

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.



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