

# Safety data sheet Safety data sheet TPP- FC 40%

#### **Section 01 - Chemical And Product and Company Information**

<b>Product Identifier</b>	Ferric chloride	
Trade name	TPP- FC 40%	
<b>Product Use</b>	Wastewater treatment, purifying factory effluents and deodorizing sewage, mordant in dyeing and printing textiles; pigments and inks; photoengraving	
Supplier Name	Tayseer international chemicals, 2 Ali amine. Naser city the 10th floor, office 1003	
Manufacturing by	Tayseer international chemicals Cairo - Badr Al-Rubiki, area of 800 acres, plot 165	
Manufacturing date	15/3/2024	
24-Hour Emergency Phone	02/ 223866483	



### TAYSEER INTERNATIONAL

#### Section 02 - Composition / Information on Ingredients

Hazardous Ingredients	Ferric Chloride	Min, 40%	
	Hydrochloric Acid	Max. 1%	
CAS Number	Ferric Chloride	7705-08-0	
	Hydrochloric Acid	7641-01-0	
Synonym (s)	.Iron(III) chloride, ferric	.Iron(III) chloride, ferric chloride	



#### **Section 03 - Hazard Identification**

Inhalation	Inhalation of spray mist may produce
	tissue damage particularly on mucous
	membranes of eyes, mouth and
	respiratory tract. Repeated exposure may
	produce respiratory tract irritation
	leading to frequent
	attacks of bronchial infection.
Skin Contact / Absorption	Skin contact may produce burns. Skin
	inflammation is characterized by itching,
	scaling, reddening, or occasionally
	blistering
Eye Contact.	Irritating to eyes; possible burns to eyes.
Ingestion	Irritation of the mouth and stomach.
	Symptoms of severe poisoning include
	stomach pain, vomiting, diarrhea,
	dehydration, shock, pallor, weak pulse,
	drowsiness, dilated pupils, and coma.
Exposure Limits	ACGIH/TLV-TWA: 1mg/m3 (ferric
	chloride)
	OSHA/TWA: 1mg/m3 (ferric chloride)
	ACGIH: 2ppm ceiling (hydrogen chloride
	gas)
	OSHA: 5ppm ceiling (hydrogen chloride
	gas)

#### **Section 04 - First Aid Measures**

Inhalation	Remove victim to fresh air. Give artificial respiration only
	if breathing has stopped. If breathing is difficult, give
	oxygen. Seek immediate medical attention
Skin Contact /	Remove contaminated clothing. Wash affected area with
Absorption	soap and water. Seek medical attention if irritation occurs
	or persists.
Eye Contact.	Flush immediately with water for at least 20 minutes.
	Forcibly hold eyelids apart to ensure complete irrigation
	of eye tissue. Seek immediate medical attention.



Ingestion	Do not induce vomiting. If vomiting occurs, lean victim forward to prevent breathing in vomit. Give large amounts of water.  Do not give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.
Additional	Note to physician: for inhalation, consider oxygen. Avoid
Information	gastric lavage or emesis

#### Section 05 - Fire Fighting

Means of Extinction  Flash Point	Product does not burn. Where fire is involved, use any firefighting agent (water spray, fog, foam) appropriate for surrounding material; use water spray to cool fire-exposed surfaces.  Not applicable	
Auto-ignition Temperature	Not applicable	
Upper Flammable Limit	Not applicable	
Lower Flammable Limit	Not applicable	
Hazardous Combustible Products	Hydrogen chloride, phosgene	
Special Fire Fighting Procedures	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.	
Explosion Hazards	Not sensitive to mechanical impact or static discharge.  Ferric chloride reacts with most metals to give	
	flammable, potentially explosive hydrogen gas.  Latent fire and explosion hazard when in contact with  metals due to hydrogen gas.	



#### **Section 06 - Accidental Release Measures**

Leak / Spill	Wear appropriate personal protective equipment. Ventilate area. Stop or reduce leak if safe to do so. Prevent material from entering sewers.
Deactivating	Neutralize waste with lime, limestone, or soda ash.
Materials	Generation of CO <sub>2</sub> requires ventilation.
Auto-ignition	Not applicable
Temperature	

### Section 07 - Handling and Storage

Handling Procedures	Use proper equipment for lifting and transporting all
	containers. Use sensible industrial hygiene and
	housekeeping practices. Wash thoroughly after handling.
	Avoid all situations that could lead to harmful exposure.
Storage Requirements	Keep container tightly closed. Do not store it in metal
	containers. Aluminum, copper, and stainless steel are
	readily attacked. Provide venting for rubber lined steel to
	avoid pressure buildup. Materials of construction to be
	used can include polyethylene, polypropylene, rubber-
	lined steel and FRP designated as appropriate for use with
	this product. Storage tanks should be vented to scrubber
	or exterior atmosphere. Storage facilities should have
TAYS	secondary containment as required by law or regulation.
	Storage tanks, piping and off-loading points should be
	labeled with appropriate signage to avoid accidents. Some
	concentrations of this product will freeze or crystallize at
	low temperatures. Insulate and heat-trace storage tanks,
	pumps, pipes, and ancillary equipment as necessary.
	Product should be used within one year.



#### **Section 08 - Personal Protection and Exposure Controls**

<b>Protective Equipment</b>		
Eyes	Chemical goggles, full-face shield, or a full-face respirator	
	is to be worn at all times when product is handled. Contact	
	lenses should not be worn; they may contribute to severe	
	eye injury.	
Respiratory	Use NIOSH-approved acid gas respirator or a self-	
	contained breathing apparatus if airborne concentrations	
	may exceed exposure limits.	
Gloves	Impervious gloves of chemically resistant material	
	(rubber, neoprene, or PVC) should be worn at all times.	
	Wash contaminated clothing with soap and water, dry	
	thoroughly before reuse.	
Clothing	Body suits, aprons, and/or coveralls of chemical resistant	
	material should be worn at all times. Wash contaminated	
	clothing with soap and water, dry thoroughly before reuse.	
Footwear	Impervious boots of chemically resistant material should	
	be worn at all times.	
<b>Engineering Controls</b>		
Ventilation	Mechanical ventilation (dilution or local exhaust),	
Requirements	process or personnel enclosure, and control of process	
	conditions should be provided. Supply sufficient	
replacement air to make up for air removed by exha-		
	systems.	
Other	Emergency shower and eyewash should be in close	
	proximity	
THY	SEER INTERNATIONAL	

### **Section 09 - Physical and Chemical Properties**

Physical State	Liquid
Odor and Appearance	Reddish, brown liquid with a slight
	pungent odor
Odor Threshold	Not available
Specific Gravity (25°C)	1.38-1.42



Vapor Pressure (mm Hg, 20°C)	40
Vapor Density	Not available
<b>Evaporation Rate</b>	Not available
<b>Boiling Point</b>	106°C
Freeze/Melting Point	Not available
pH (1%)	2-3.5
Water/Oil Distribution Coefficient	Not available
Bulk Density	Not available
% Volatiles by Volume	Not available
Solubility in Water	Completely miscible and soluble
Molecular Formula	FeCl <sub>3</sub>
Molecular Weight	162.20

#### Section 10 - Stability and Reactivity

Stability	Stable under normal conditions.
	Decomposes to yield hydrochloric gas on
	exposur <mark>e to</mark> light
Incompatibility	Highly reactive with oxidizing, bases,
	acids and reducing agents. Reactive with
	metals and combustible materials.
Hazardous Products of	Decomposes to yield hydrochloric gas on
Decomposition	exposure to light
Polymerization — Y = = = R	TERNE Will not occur
CHEMICALS CO.	

### Section 11 - Toxicological Information

Irritancy	Irritant Animal
Sensitization	Not available
<b>Chronic/Acute Effects</b>	Not available
Synergistic Materials	Not available
<b>Toxicity Data</b>	LD50(Oral, Rat): 895 mg/kg
	LD50(Dermal, Rabbit): >2000 mg/kg



Carcinogenicity	Not considered carcinogenic by NTP,
	IARC, or ACGIH
Reproductive Toxicity	Not available
Teratogenicity	Not available
Mutagenicity	Tests on lab animals indicate material
	may produce adverse effects.

#### **Section 12 - Ecological Information**

Fish Toxicity	Ferric Chloride:
	LC50(96 hr, Striped bass, 96): 6 mg/L LC50(96
	hr, Mosquitofish): 75.6 mg/L Hydrochloric acid:
	LC50(96 hrs, Mosquitofish): 282 mg/L LC50(96
	hrs, Bluegill sunfish): 3.6 mg/L
Biodegradability	Not available
Environmental Effects	Not available

## Section 13 - Disposal Consideration

Waste Disposal	Dispose in accordance with all federal,
	provincial, and/or local regulations
	including the Egyptian guidelines

#### **Section 14 - Transportation Information**

TDG Classification		
Class	CHEMICALS CO. 8	
Group	III	
PIN Number	UN 2582	
Other	Secure containers (full and/or empty) with	
	suitable hold down devises	
	during shipment	



E

#### **Section 15 - Regulatory Information**

WHMIS Classification

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE EGYPT CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

#### Section 16 - Other Information

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations. Attention: Receiver of the chemical goods / MSDS coordinator as part of our commitment to the TSC Responsible Distribution® initiative, TSC and its associated companies require, as a condition of sale, that you forward the attached Material Safety Data Sheet(s) to all affected employees, customers, and end-users. TSC will send any available supplementary handling, health, and safety information to you at your request. If you have any questions or concerns, please call our customer service or technical service department

TAYSEER INTERNATIONAL CHEMICALS CO.