

# TECHNICAL DATA SHEET



## Ferric chloride solution

### GENERAL INFORMATION

Ferric chloride is the coagulant of choice for many industrial and sanitary wastewater treatment applications, due to its high efficiency, effectiveness in clarification, and utility as a sludge dewatering agent. The chemical leaves slight residual color, and offers very good TSS, BOD, COD, and turbidity removal.

Ferric chloride is mainly used in industries for purifying water and wastewater treatment. The brown, acidic, and corrosive solution is used as a flocculant in sewage treatment and drinking water production, and as an etchant for copper-based metals in printed circuit boards.

### PRODUCT SAFETY INFORMATION

<p>Keep containers tightly closed when not in use. Avoid contact with skin, eyes, and clothing. Do not taste or swallow. Avoid contact with skin. Avoid breathing vapors or mists. Avoid prolonged exposure. When using, do not eat, drink or smoke. Remove contaminated clothing and wash thoroughly after handling.</p>		<p><b>DOT CODE</b> <b>UN 2582</b></p>	<p><b>GHS CODE</b> Corrosive to Metals Cat 1 Acute Toxicity, Oral Cat 4 Skin Corrosion/Irritation Cat 2 Serious Eye Damage/Eye Irritation Cat 1 Specific Target Organ Toxicity, Single Exposure Cat 2 (systemic) &amp; Cat. 3(respiratory tract) Hazardous to the Aquatic Environment, Acute Hazard Cat 2 Hazardous to the Aquatic Environment, Long-terms Hazard Cat 2</p>	<p><b>HMIS CODE</b></p>								
<p>Hand protection:</p>	<p>Use of gloves impermeable to the specific material handled, if necessary</p>			<table><tr><td><b>HEALTH</b></td><td><b>2</b></td></tr><tr><td><b>FLAMMABILITY</b></td><td><b>0</b></td></tr><tr><td><b>REACTIVITY</b></td><td><b>2</b></td></tr><tr><td><b>PERSONAL PROTECTION</b></td><td><b>COR</b></td></tr></table>	<b>HEALTH</b>	<b>2</b>	<b>FLAMMABILITY</b>	<b>0</b>	<b>REACTIVITY</b>	<b>2</b>	<b>PERSONAL PROTECTION</b>	<b>COR</b>
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<p>Eye protection:</p>	<p>Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended</p>											
<p>Respiratory protection:</p>	<p>If the exposure limit is exceeded, wear a supplied air, full face piece respirator, air-lined hood, or full face piece self-contained breathing apparatus (NIOSH approved or equivalent)</p>											

### PHYSICAL PROPERTIES INFORMATION

Physical state:	Liquid
Color:	Orange to brown liquid
Odor:	Acid odor



..... نفت، گاز، پتروشیمی، آب و فاضلاب .....

pH:	< 2.0
Specific Gravity:	1.40 – 1.50 @ 60°F

#### STORAGE INFORMATION

Store in corrosive resistant container with a resistant inner liner. Store this material in a cool, dry, well ventilated area and out of direct sunlight. Protect against physical damage. Isolate from incompatible substances. Containers of this material are hazardous when empty since they retain product residues.

Shelf life: Stored under controlled conditions 3 years.

#### DELIVERY

Containers: 55 Gal Plastic drums / 250 Gal Tote bin / Bulk tank trucks.

#### NOTE

Refer to the SDS for further health, safety and environmental information regarding this product. Information and recommendations in this technical data sheet are based on information believed to be reliable. However, the use of the product is beyond our control, and no guarantee expressed or implied is made as to the effects of such the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility including injury or damage, resulting from misuse of the product as such, or combination with other materials.