



Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: Fe X Complete

PRODUCT USE: Iron Oxide Remover / Passivator

SUPPLIER: CONCEPTUAL TECHNOLOGIES INC.
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SECTION 2 – HAZARDS IDENTIFICATION

WHMIS Classification:



Class D.2B
Other Toxic Effects

Emergency Overview:

This product is a pale amber liquid. It may cause irritation to the eyes and skin. If ingested it may cause vomiting, headaches and medical problems.

Potential Health Effects

Routes of Exposure:

Skin contact, Eye contact, Ingestion

Eye Contact:

In its concentrated form, this product may cause moderate to severe eye irritation. Symptoms include stinging, tearing, redness and swelling of eyes.

Skin Contact:

May cause mild to moderate skin irritation. Prolonged or repeated exposure may cause skin dryness or cracking.

Ingestion:

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. It may cause nausea, abdominal pain, diarrhea, vomiting, cramps and gastrointestinal irritation.

Inhalation:

If this product is misted in its concentrated form, it may cause mild to moderate irritation of the respiratory tract.

Aggravated Medical Condition

Not Applicable.

Symptoms

Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, and/or coughing. Skin irritation signs and symptoms may include redness and/or blisters. Defatting dermatitis signs and symptoms may include a dried/cracked appearance. Eye irritation signs and symptoms may include a burning sensation and/or redness



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SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS/UN #	ACGIH – TLV	LD ₅₀	LC ₅₀
Sodium Gluconate	20 – 50	527-07-1		250 mg/Kg Rat Oral	

SECTION 4 – FIRST AID MEASURES

Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, holding eyelid open. If irritation persists, obtain medical attention.
Skin Contact:	Remove contaminated clothing. Thoroughly wash contaminated skin with mild soap and lots of water. If irritation persists seek medical attention.
Ingestion:	If swallowed, do not induce vomiting: If patient is fully conscious, rinse mouth with water and give 1 – 2 glasses of water to drink. Obtain medical attention immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth if victim is unconscious, losing consciousness rapidly or is convulsing.
Inhalation:	Remove victim to fresh air. If symptoms persist, obtain medical attention.
Note to Physician:	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to other materials other than this product may have occurred. Treat symptomatically. No specific antidote available.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability:	NO <ul style="list-style-type: none">If YES, under what conditions: This product will not, burn or support combustion.
Means Of Extinction:	Use media appropriate for surrounding fire. Not applicable for this product.
Special Procedures:	<ul style="list-style-type: none">Directing a solid stream of water into a hot burning liquid, can cause frothing, resulting in spreading of the fire. Use self-contained breathing apparatus and full body gear.
Flash Point (°C) TCC	This product will not ignite.
Upper Explosion Limit (% by Volume)	Not Applicable.
Lower Explosion Limit	Not Applicable.



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(% by Volume)

Auto Ignition Temperature (°C)	Not Applicable.
Explosion Sensitivity to Impact	Not Applicable.
Rate of Burning	Data not available
Explosive Power	Not Applicable.
Hazardous Combustion Products	May produce oxides of carbon and nitrogen.
Sensitivity to Static Discharge	Not Applicable.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak & Spill Procedure:	<p>For large spills provide dike or other appropriate containment to keep material from spreading. If contained material can be pumped, recover and store in appropriate container for reuse or disposal. Use appropriate absorbent material to soak up residue and dispose of safely. Rinse and clean area completely with water, since some material, even in small quantities, may present a slip hazard.</p> <p>For small spills use appropriate absorbent material to soak up residue and dispose of safely. Rinse and clean area completely with water, since some material, even in small quantities, may present a slip hazard.</p> <p>Observe all recommended personal protective equipment.</p>
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SECTION 7 – HANDLING & STORAGE

Handling Procedures & Equipment:	Do not ingest. Avoid contact with eyes. Wash thoroughly after handling. Since emptied containers retain product residue, all hazard precautions given in the data sheet must be observed.
Storage Requirements:	Keep out of reach of children. Store in a cool, dry, well ventilated area. Store in suitable, labeled containers (usually the shipping container). Keep container tightly closed when not in use and when empty.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	General ventilation is adequate.
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Personal Protective Equipment:	Some protective equipment is required for normal use.
Gloves (Specify):	Impermeable gloves to protect from drying of skin (consult your safety equipment supplier).
Respiratory (Specify):	Not required is good ventilation is maintained.
Eye (Specify):	Use chemical safety glasses or full face shield when handling concentrate.
Footwear (Specify):	Wear impervious boots when handling concentrate.
Clothing (Specify):	Wear impervious clothing when handling concentrate
Other (Specify):	Eye wash station.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Liquid
Odour & Appearance:	Characteristic & Clear -Tan
Specific Gravity (Kg/L):	1.03 ± 0.02
pH:	8.0 ± 0.5
Freezing Point (°C):	-10 °C
Boiling Point (°C):	>100 °C
Flash Point (°C) TCC	This product will not ignite
Vapour Pressure (mm Hg)	NA
Vapour Density (Air = 1)	NA
% Volatile (By Volume):	NA
Odour Threshold (ppm)	NA
Solubility in Water:	Complete (100%)
Coefficient of Oil/Water Dist.	NA

SECTION 10 – STABILITY & REACTIVITY

Chemical Stability	Yes	<ul style="list-style-type: none">• If NO, under what conditions: Stable under normal conditions.
Incompatibility with other substances	Yes	<ul style="list-style-type: none">• If YES, under what conditions: Reactive with strong oxidizing materials.
Reactivity	No	<ul style="list-style-type: none">• If YES, under what conditions: Generally stable.
Hazardous Decomposition	Yes	<ul style="list-style-type: none">• May produce oxides of carbon.
Hazardous Reactions:		This product will not undergo hazardous polymerization.



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SECTION 11 – TOXICOLOGICAL PROPERTIES

Based on the information of the ingredients (see section 2) this product may cause irritation to the eyes upon contact.

Acute Oral Toxicity: LD₅₀: >5000 mg/kg, Rat

Acute Dermal Toxicity LD₅₀: Not Applicable.

Acute Inhalation Toxicity LC₅₀: Not Applicable.

SECTION 12 – ECOLOGICAL INFORMATION

Eco-toxicity: Readily Biodegradable.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with all applicable federal, provincial and local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

TDG/UN **Proper Shipping Name:** Not Regulated
UN
Class / Division
Packing Group

DOT **Proper Shipping Name:** Not Regulated
UN
Class / Division
Packing Group

Note:

SECTION 15 – REGULATORY INFORMATION

Occupational Health & Safety



Product Name: **Fe X Complete**
Product ID: SC-653.01

Effective Date 01/01/2023

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WHMIS Classification: D.2B

OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

Environmental Regulatory List

SARA:

Toxic Substances Control Act (TSCA): All ingredients are listed on the Chemical Substance Inventory.

Canadian Domestic Substance List (DSL): All ingredients are listed.

SECTION 16 – OTHER INFORMATION

Conceptual Technologies Inc.

Telephone: (780) 466-6146

Date: January 01 – 2023

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