

# Material Safety Data Sheet

## Provided by:

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DPC Enterprises          DX Systems Company  
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## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name**      FERRIC SULFATE 50% SOLUTION

### Synonyms

**Chemical Name**      FERRIC SULFATE SOLUTION

**Emergency phone:**    281-457-4888

**Date of Issue:**        10/1/00

**Chemtrec:**            800-424-9300

**Revised Date:**        N/A

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
WATER	BALANCE	7732-18-5
SULFURIC ACID	50%	10028-22-5

## SECTION 3 - HAZARDS IDENTIFICATION

### Potential Health Effects

**ACGIH - TLV:**        1 mg/cu m

**Eye Contact**        LIQUID & MISTS ARE CORROSIVE TO EYES. BRIEF CONTACT WILL SEVERELY DAMAGE EYES & PROLONGED CONTACT MAY CAUSE PERMANENT EYE INJURY.

**Skin Contact**        MAY CAUSE SKIN IRRITATION.

**Ingestion**            MAY CAUSE DIGESTIVE TRACT IRRITATION.

**Inhalation**            VAPORS & MISTS ARE EXTREMELY CORROSIVE TO THE NOSE, THROAT & MUCOUS MEMBRANES.

**Carcinogenicity:**    *NTP* NO    *IARC* YES    *OSHA* NO

## SECTION 4 - FIRST AID PROCEDURES

**Eye Contact:**        IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

**Skin Contact:**        IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.

**Inhalation:**            REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

**Ingestion:**            DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

## SECTION 5 - FIRE FIGHTING MEASURES

<b>Flash Point</b>	> 200
<b>Extinguishing Media</b>	USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.
<b>Special Firefighting Procedures/Precuations</b>	WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS. IF WATER IS USED, THE PRODUCT IS WATER SOLUBLE AND MAY PRODUCE AN ACID SOLUTION. KEEP WATER FROM DRAINING INTO SEWERS OR WATERWAYS.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>For Spill:</b>	CONTAIN WITH ABSORBENT MATERIAL AND PLACE IN CONTAINER FOR DISPOSAL. KEEP OUT OF WATERWAYS AND SEWERS.
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## SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

CORROSIVE TO STEEL. STORAGE AND EQUIPMENT SHOULD BE MADE OF FIBERGLASS, REINFORCED PLASTICS, PLASTICS, RUBBER, LEAD, TYPE 304 OR BETTER GRADES OF STAINLESS STEEL.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Respiratory Protection</b>	USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
<b>Ventilation</b>	LOCAL AND MECHANICAL RECOMMENDED.
<b>Protective Gloves</b>	CHEMICAL IMPERVIOUS GLOVES.
<b>Eye/Face Protection</b>	CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.
<b>Other Protection</b>	CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.
<b>Work Practices</b>	USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point (°F):</b> 750	<b>Vapor Pressure (mmHg):</b> NOT APPLICABLE
<b>Freezing Point (°F):</b> -45	<b>Vapor Density (Air=1):</b> NOT APPLICABLE
<b>Solubility (H<sub>2</sub>O):</b> INFINITE	<b>Specific Gravity (H<sub>2</sub>O=1):</b> 1.43 - 1.5
<b>pH</b> < 1	<b>Evaporation Rate:</b> NOT DETERMINED
<b>Appearance/Odor:</b> RED BROWN SOLUTION; ODORLESS.	

## SECTION 10 - STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	YES
<b>Incompatible Materials</b>	MILD STEEL, COPPER, COPPER ALLOYS AND GALVANIZED STEEL. MAY CORRODE PAINTS, ENAMELS, AND CONCRETE. REACTS W/LIME & OTHER BASIC MATERIALS TO FORM SALTS.
<b>Decomposition Products</b>	NONE KNOWN.
<b>Hazardous Polymerization:</b>	WILL NOT OCCUR.

**SECTION 11 - TOXICITY INFORMATION**

LD50 ORAL (rat) = > 5000 mg/kg LD50 DERMAL (rabbit) = > 2000 mg/kg

**SECTION 12 - ECOLOGICAL INFORMATION**

NO DATA AVAILABLE.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

**SECTION 14 - TRANSPORT INFORMATION**

**USA DOT Shipping Name:** CORROSIVE LIQUID, N.O.S. (FERRIC SULFATE)

**Hazard Class:** 8

**UN/NA Number:** UN1760

**Packing Group:** III

**Subsidiary Hazard**

**Marine Pollutant:** NO

**SECTION 15 - REGULATORY INFORMATION**

**CERCLA RQ (lbs):** 1000

**SARA Title III Section 312:**

**Acute**     **Chronic**     **Flammable**     **Sudden Release of Pressure**     **Reactive**

**SARA Title III Section 313:** No

**SARA Extremely Hazardous Substance:** No

**HMIS HAZARD RATING**

**Health:** 2                      **Fire:** 0                      **Reactivity:** 0

**0 - Least    1 - Slight    2 - Moderate    3 - High    4 - Extreme**

**SECTION 16 - OTHER INFORMATION**

**EPA Pesticide Registration Number:** NOT APPLICABLE

**NSF Maximum Use Level for Potable Water (Standard 60):** NOT APPLICABLE

**TSCA (Toxic Substance Control Act), 40 CFR 710:**

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

**DISCLAIMER**

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