## GFS CHEMICALS, INC.

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## MATERIAL SAFETY DATA SHEET

SULFURIC ACID SOLUTION, 0.5 N

1200

CHEMICAL NAME & SYNONYMS SARA TITLE 313 DOT CLASS

Sulfuric Acid, Solution 0.5 N 8/II No TSCA listed - Yes

FORMULA REPORTABLE QUANTITY F.W. CAS#

 $H_2SO_4 < 2.5\%$ 454 kg 98.09 7664-93-9 >97.5%  $H_2O$ N/A18.02 7732-18-5

PHYSICAL DATA

Specific gravity 1.02; Boiling point >100°C; Completely miscible with water; pH <0.5.

APPEARANCE & ODOR

Clear, colorless liquid. Odorless. Styptic taste.

REACTIVITY & CONDITIONS TO AVOID

Stable. Corrosive.

FIRE HAZARDS

May decompose in a general fire emitting acid fumes or oxides of sulfur. Firefighters wear SCBA. NFPA # 2-0-1.

**EXTINGUISHER** FLASHPOINT <u>LEL</u> UEL N/AN/AN/A

Fight surrounding fire.

**HEALTH HAZARDS** Corrosive and irritating to eyes and mucous membranes. Harmful by ingestion. LD50(oral-rat) 2140 mg  $(H_2SO_4)/kg$ . OSHA PEL: TWA 1 mg  $(H_2SO_4)/m^3$ ; ACGIH TLV: TWA 0.2 mg  $(H_2SO_4)/m^3$ . No evidence of carcinogenicity for sulfuric acid or solutions, but strong inorganic mists containing sulfuric acid are now considered to be carcinogenic so avoid conditions which may cause the solution to

become a vapor or mist.

SPECIAL PRECAUTIONS

Wear goggles and rubber gloves while handling. If vapor or mists are being formed, use good local ventilation or suitable respirator.

FIRST AID

Wash affected area thoroughly with water. If eye irritation persists, get medical attention. Internally-give water to drink or milk of magnesia, if available, and get medical attention.

SPILLS & LEAKS

Neutralize spill with soda ash and wash to sanitary drain. Check local regulations.

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