

MSDS**Material Safety Data Sheet**

24 HOUR EMERGENCY TELEPHONE NUMBER CALL CHEMTREC 1-800-424-9300
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189 Twin County Road • Morgantown, PA 19543 • (610) 524-5810

Copper Sulfate Solution, S.G. 1.053**SECTION 1 PRODUCT IDENTIFICATION**

NAME: Copper Sulfate Solution, S.G. 1.053
AZER SCIENTIFIC ORDER NUMBER: ES933, ES934, ES935
SYNONYMS: Copper Sulfate Solution for Hemoglobin Testing
CAS NO: Does not apply
FORMULA: Does not apply
DOT INFORMATION: Proper Shipping Name - "Diagnostic Solutions" (Not regulated)

****LABEL HAZARD STATEMENT AND PRECAUTIONS****

CAUTION! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION. Avoid contact with skin, eyes and clothing. Avoid breathing mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT/CAS NO -----	OSHA PEL -----	ACGIH TLV -----
Cupric Sulfate/7758-98-7	N/E	N/E

Cupric Sulfate, ~8%, is subject to the reporting requirements of SARA 313 and 40CFR372.

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Miscible	BOILING POINT (C): N/E
VAPOR PRESSURE (mm Hg): N/E	VAPOR DENSITY: N/E
SPECIFIC GRAVITY: 1.053	MELTING POINT (C): N/E
EVAPORATION RATE: N/E	
APPEARANCE AND ODOR: Clear, blue liquid. Odorless.	

SECTION 4 FIRE / EXPLOSION HAZARD DATA

NFPA RATINGS: (Estimated) HEALTH:2 FIRE:0 REACTIVITY:0
FLASH POINT (C): Not combustible.
AUTOIGNITION TEMPERATURE (C): Does not apply.
FLAMMABLE LIMITS (%) UEL: Does not apply LEL: Does not apply
EXTINGUISHING MEDIA: Suitable for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus with full face piece operated in pressure-demand or other positive-pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/I

SECTION 5 REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Excess heat

MATERIALS TO AVOID: Magnesium

HAZARDOUS DECOMPOSITION PRODUCTS: Cupric oxide, sulfur oxide.

HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE

INHALATION: May cause respiratory tract irritation.

SKIN CONTACT: May cause irritation.

EYE CONTACT: May cause irritation.

SKIN ABSORPTION: N/I

INGESTION: May cause nausea, vomiting, diarrhea, gastritis. May cause copper poisoning.

CHRONIC: May cause dermatitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin disorders, impaired liver, kidney or pulmonary function.

CARCINOGENICITY: None

****FIRST AID PROCEDURES****

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention for persistent irritation.

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: If conscious, induce vomiting immediately as directed by medical personnel.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Absorb with inert material and containerize for disposal.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.

STORAGE: Store tightly closed in a cool place.

SECTION 8 CONTROL MEASURES

VENTILATION: Local or general

RESPIRATORY PROTECTION: Not ordinarily necessary. Mist respirator may be used.

EYE PROTECTION: Chemical splash safety goggles.

SKIN PROTECTION: Gloves, lab coat and impervious apron.

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