

MSDS**Material Safety Data Sheet**

24 HOUR EMERGENCY
TELEPHONE NUMBER
CALL CHEMTREC
1-800-424-9300

189 Twin County Road • Morgantown, PA 19543 • (610) 524-5810

Bluing Reagent**SECTION 1 PRODUCT IDENTIFICATION**

NAME: Bluing Reagent
AZER SCIENTIFIC ORDER NUMBERS: ES744 (ORM-D), ES745
SYNONYMS: N/I
CAS NO: Not Applicable to mixtures
FORMULA: Mixture
DOT INFORMATION: Proper Shipping Name - "Methanol Solutions"
 Hazard Class: Hazardous
 UN Number: 1230
 Packing Group: II

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT	CAS #	Percent	OSHA (PEL)	ACGIH (TLV)
Methyl Alcohol	67-56-1	50%	200	200/250ppm

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Complete
VAPOR PRESSURE (mm Hg/20°C): 96
SPECIFIC GRAVITY (H₂O=1): ~0.9
EVAPORATION RATE (ether= 1) : >1
APPEARANCE AND ODOR: Clear liquid pungent odor.

BOILING POINT (F): 148
VAPOR DENSITY (Air 1:1): 1.11
PERCENT VOLATILE BY VOLUME: 91%

SECTION 4 FIRE / EXPLOSION HAZARD DATA

NFPA RATINGS: (Estimated) HEALTH: 1 FIRE: 3 REACTIVITY: 0
FLASH POINT (C): 54°F TCC
FLAMMABLE LIMITS (%): LEL 6.7 UEL 36.5
EXTINGUISHING MEDIA: Water spray, dry chemical, "alcohol" foam, CO₂.
SPECIAL FIRE FIGHTING PROCEDURES: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be hazardous in a fire situation. Do not use direct water stream.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Eliminate sources of ignition. Burns with invisible flame.

SECTION 5 REACTIVITY DATA

STABILITY: Stable under normal conditions

CONDITIONS TO AVOID: Excessive heat, sparks or flames.

MATERIALS TO AVOID: Strong oxidizers, chromic anhydride, perchloric acids, etc.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon.

HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, skin and ingestion.

ACUTE: Vapor inhalation may cause eyes, skin and respiratory irritation, drowsiness, nausea, headache and vomiting.

CHRONIC: May cause liver, heart and kidney damage. May cause gastrointestinal disturbances and convulsions.

CARCINOGENICITY: Not classified as a human carcinogen.

SIGNS/SYMPTOMS OF EXPOSURE: Vision blurring, drowsiness and headache.

****FIRST AID PROCEDURES****

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. Contact a physician if irritation persists.

SKIN CONTACT: Immediately remove contaminated clothing and shoes. Wash affected area with soap and water. Get medical attention for persistent irritation.

INHALATION: Remove to fresh air. If not breathing give artificial respiration and contact physician.

INGESTION: Rinse mouth thoroughly with water providing person is conscious. Call physician.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area. Eliminate source of ignition in the vicinity of the spill or released vapor. Isolate the spill area with sand or other absorbent material. Place all contaminated material in closed container for proper disposal.

WASTE DISPOSAL METHOD: All liquid or contaminated material should be disposed of in a DOT approved waste container. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

STORAGE: Use precautions for flammable liquids. Avoid excessive heat and sources of ignition. For large quantities store in a flammable safety cabinet. Use in well ventilated area.

SECTION 8 CONTROL MEASURES

VENTILATION: Special flammable exhaust hood if vapor concentration is high. In well-ventilated area mechanical exhaust is sufficient.

RESPIRATORY PROTECTION: Not normally required. If used in a poorly ventilated area use in a approved fume hood or NIOSH approved respirator.

EYE PROTECTION: Chemical splash goggles and/or full face-shield. Maintain eye wash station in area where this reagent is used.

SKIN PROTECTION: Gloves, lab coat and impervious apron as necessary to prevent any skin contact.

WORK/HYGIENIC PRACTICES: wash thoroughly with soap and water after handling.

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