

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

Decalcifier, Formic Acid, v/v

Section I: PRODUCT IDENTIFICATION

Product Name: Decalcifier, Formic Acid, v/v
Azer Scientific Order Numbers: ES731, ES732
Product Description: A dilute solution of formic acid and formaldehyde.

Tel. # for information: (610)524-5810
Emergency Tel. #: (800)424-9300

Section II: HAZARDOUS INGREDIENTS

<i>Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL</i>	
Formaldehyde 10%	50-00-0	0.75 ppm	0.3/2ppm
Formic Acid 10%	64-18-6	9 mg/m ₃	/10mg/m ₃

Section III: PHYSICAL /CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Complete
VAPOR PRESSURE: NR
SPECIFIC GRAVITY: ≥1
EVAPORATION RATE (BuAc=1): Minimal
APPEARANCE AND ODOR: Clear liquid/bitter odor

BOILING POINT: ~213°F
VAPOR DENSITY: ~1
MELTING POINT: not established

Section IV: FIRE/EXPLOSION HAZARD

NFPA RATINGS: (estimated) HEALTH: 2 FIRE: 0 REACTIVITY: 0

Flash Point: *NA* Flammable Limits: *LEL, NA* *UEL, NA*

Extinguishing Media: Water Spray, Dry chemical, CO₂, water spray and foam

Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

Unusual Fire & Explosion Hazards: Under fire conditions CO and gaseous formaldehyde may be released.

Section V: REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Excessive heat

Material to Avoid: Strong acids etc and strong oxidizing agents.

Hazardous Decomposition or Byproducts: Oxides of carbon

Hazardous Polymerization: Does not occur

Section VI: HEALTH HAZARD DATA

Potential Cancer Hazard

Routes of Entry: Inhalation, Skin and Ingestion

Acute: Vapors may cause eyes, skin and respiratory irritation or burning and allergic reaction.

Chronic: May cause burning to eyes, skin and intestinal tract, gastrointestinal disturbances, convulsions, circulatory problems, respiratory system and hypersensitivity towards dermatitis.

Carcinogenicity: Suspect human carcinogen.

Signs/Symptoms of Exposure: Immediate eyes and respiratory irritation.

*****Emergency First Aid:*****

EYE CONTACT: Thoroughly flush eyes with water. Contact a physician if irritation persist.

SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water.

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

INGESTION: Induce vomiting immediately as directed by medical personnel and contact a physician

Section VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Chemical Release or Spill: Wear full respiratory protection and isolate the spill area with sand, or other absorbent material. Place all contaminated material in close container for disposal. Neutralize with chemical absorbent kit commercially available. Do not allow material to drain in sewers or surface water.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Use normal laboratory precautions. Avoid excessive heat.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not required if used in a ventilated area.

Ventilation: Local ventilated areas are the preferred working environment.

Protective Gloves: Chemical resistant

Eye Protection: Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

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