

# DER-KEL CHEMICAL

PO Box 90019 Chattanooga, TN 37412

(423) 622-9808 FAX (423) 622-9840

DATE: August 2010

MSDS for Test Reagent: FLUORIDE MASKING AGENT

4REA-0805

R-0805

## MATERIAL SAFETY DATA SHEET

MANUFACTURER: TAYLOR TECHNOLOGIES, INC  
31 LOVETON CIRCLE  
SPARKS, MD 21152  
TELEPHONE: 410-472-4340

### 1. PRODUCT IDENTIFICATION

CATALOG NO.: R-0805  
PRODUCT NAME: Fluoride Masking Agent  
CHEMICAL FAMILY: Inorganic salt solution

### 2. INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
*Beryllium sulfate	7787-56-6	<2	Poison, suspect carcinogen
Deionized water	7732-18-5	to 100	None

\*Beryllium sulfate is not listed specifically in the NTP Annual Report on Carcinogens (latest edition) but is included under "beryllium and certain beryllium compounds".

This chemical is subject to the reporting requirements of SARA Title III Section 313 and 40 CFR 372.

### 3. PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid      APPEARANCE: Clear, colorless      ODOR: None  
BOILING PT (F): 212      pH: 2.8      SPECIFIC GRAVITY: 1  
VAPOR PRESSURE (mm Hg): 17      VAPOR DENSITY (AIR=1): .6  
PERCENT VOLATILE BY VOLUME: 96      SOLUBILITY IN WATER: Soluble

### 4. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA      METHOD: NA  
FLAMMABLE LIMITS: LEL: NA      UEL: NA  
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam  
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and full-protective clothing  
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of beryllium oxide, sulfuric acid, sulfur oxides.  
NFPA CODE: Health: 3      Flammability: 0      Reactivity: 0      Specific: NA  
CONDITIONS TO AVOID: Extreme heat, temperatures.

### 5. HEALTH HAZARD DATA

INGREDIENT: Beryllium sulfate  
TOXICITY: LD50(orl-rat): 82 mg/kg  
PEL: .002 mg/m3 (as Be)      TLV: .002 mg/m3 (as Be)  
STEL: .025 mg/m3 (as Be)

# DER-KEL CHEMICAL

PO Box 90019 Chattanooga, TN 37412

(423) 622-9808 FAX (423) 622-9840

NEW PAGE

R-0805

Page 2

## 5. HEALTH HAZARD DATA - continued

ROUTE(S) OF ENTRY: Inhalation    Ingestion X    Skin X

TARGET ORGAN(S): Eyes, skin

CARCINOGENICITY: NTP Yes    IARC Yes    OSHA No

HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:

EYES: Irritant

SKIN: Irritant, toxic. Contact may cause dermatitis, skin ulcers.

INGESTION: Irritant, toxic. May cause gastrointestinal irritation, possible death.

INHALATION: NA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

## 6. PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: Rubber gloves, safety glasses, lab coat

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.

STORAGE: Cool, dry area. Avoid direct sunlight.

## 7. EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes. Call physician. Wash skin thoroughly with soap and water.

INGESTION: Give large amounts of water. Call physician. Induce vomiting under direction of physician.

INHALATION: NA

## 8. SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Absorb with vermiculite or other inert material. Containerize for later disposal.

DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

NA = Not applicable

ND = Not determined

NE = Not established

This Material Safety Data Sheet has been prepared in accordance with 29 CFR Part 1910.1200 and contains information believed to be accurate and complete at the date of preparation. However, no warranty is expressed or implied. Advice given under "Spill and Disposal Procedures" assumes compliance with federal, state, and local regulations regarding the disposal of hazardous waste.