

MATERIAL SAFETY DATA SHEET

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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(oral-rat): 82 mg/kg
 PEL: .002 mg/m³ (as Be) TLV: .002 mg/m³ (as Be)
 STEL: .025 mg/m³ (as Be)

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 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.

INGESTION: Give large amounts of water. Call physician. Induce vomiting under direction of physician. DO NOT induce vomiting or give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.

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.

DATE PREPARED: August 2005