

MATERIAL SAFETY DATA SHEET

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1. PRODUCT IDENTIFICATION

CATALOG NO.: R-0725
 PRODUCT NAME: Acid Starch Indicator Powder
 CHEMICAL FAMILY: Inorganic acid/starch mixture

2. INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Sulfamic acid	5329-14-6	<90	Corrosive acid
Starch (Maltodextrin)	9050-36-6	<25	Irritant

3. PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Solid APPEARANCE: Off-white ODOR: None
 BOILING Pt (F): NA pH: NA SPECIFIC GRAVITY: NA
 VAPOR PRESSURE (mm Hg): NA VAPOR DENSITY (AIR=1): NA
 PERCENT VOLATILE BY VOLUME: NA 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 special protective clothing
 FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May react violently with chlorine, fuming nitric acid. May emit toxic fumes of sulfur oxides, sulfuric acid, ammonia.
 NFPA CODE: Health: 2 Flammability: 0 Reactivity: 2 Specific: CORR
 CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with strong alkali, metals.

5. HEALTH HAZARD DATA

INGREDIENT: Sulfamic acid
 TOXICITY: LD50(oral-rat): 3160 mg/kg
 PEL: NE TLV: NE
 STEL: NE

ROUTE(S) OF ENTRY: Inhalation X Ingestion X Skin X
 TARGET ORGAN(S): Eyes, skin, respiratory tract
 CARCINOGENICITY: NTP No IARC No OSHA No
 HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:
 EYES: Corrosive. Contact causes burns.
 SKIN: Corrosive. Contact causes burns.
 INGESTION: Corrosive. Causes burns of mouth, esophagus, stomach.
 INHALATION: Corrosive. Causes burns of mucous membranes, upper respiratory tract.
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, and respiratory conditions

6. PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: Rubber gloves, safety glasses, lab coat, rubber apron, dust mask, face shield

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 baking soda, soap and water.

INGESTION: Give large amounts of water or large amounts of water with milk of magnesia. Call physician. **DO NOT INDUCE VOMITING.**

INHALATION: Remove to fresh air. Call physician.

8. SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Neutralize with soda ash solution. 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: May 1996