

## 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	80	Corrosive acid
Non-hazardous ingredients	9050-36-6	20	None

## 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: 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, nitrogen.  
 NFPA CODE: Health: 2 Flammability: 1 Reactivity: 2 Specific: CORR  
 CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with strong alkali, metals, chlorine, bromine.

## 5. HEALTH HAZARD DATA

INGREDIENT: Sulfamic acid  
 TOXICITY: LD50(orl-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 can cause eye ulceration and conjunctivitis. May cause permanent eye damage.

SKIN: Corrosive. Contact causes severe irritation. May cause burns.

INGESTION: Corrosive. Causes burns of mouth, esophagus, stomach. Large amounts may cause shock, convulsions, coma, possible death.

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

**INGESTION:** Give large amounts of water or large amounts of water with milk of magnesia. Call physician. DO NOT INDUCE VOMITING. DO NOT give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.

**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.

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