

**MATERIAL SAFETY DATA SHEET**

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**1. PRODUCT IDENTIFICATION**

**CATALOG NO.:** R-0686, R-0686O, R-0686P  
**PRODUCT NAME:** Sulfuric Acid N  
**CHEMICAL FAMILY:** Inorganic acid solution

**2. INGREDIENTS**

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Sulfuric acid	7664-93-9	5	Corrosive acid
Deionized water	7732-18-5	to 100	None

**3. PHYSICAL/CHEMICAL CHARACTERISTICS**

**STATE:** Liquid      **APPEARANCE:** Clear, colorless      **ODOR:** None  
**BOILING PT (F):** 230      **pH:** 0.6      **SPECIFIC GRAVITY:** 1.03  
**VAPOR PRESSURE (mm Hg):** 17      **VAPOR DENSITY (AIR=1):** .6  
**PERCENT VOLATILE BY VOLUME:** 100      **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  
**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 water. May react with metals to produce hydrogen gas. May ignite combustible materials. May emit toxic fumes of sulfur oxides.  
**NFPA CODE:** Health: 3      Flammability: 0      Reactivity: 1      Special: NA  
**CONDITIONS TO AVOID:** Extreme heat, temperatures. Contact with strong alkali, metals.

**5. HEALTH HAZARD DATA**

**INGREDIENT:** Sulfuric acid  
**TOXICITY:** LD50(oral-rat): 2140 mg/kg  
**PEL:** 1 mg/m3      **TLV:** 1 mg/m3  
**STEL:** 3 mg/m3

**ROUTE(S) OF ENTRY:** Inhalation      Ingestion X      Skin X  
**TARGET ORGAN(S):** Eyes, skin  
**CARCINOGENICITY:** NTP No      IARC No      OSHA No  
**HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:**  
**EYES:** Corrosive. Contact may cause severe burns.  
**SKIN:** Corrosive. Contact may cause severe burns.  
**INGESTION:** Corrosive. May cause severe gastrointestinal irritation, burns of mouth, esophagus, and stomach.  
**INHALATION:** NA  
**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Eye and skin conditions

6. PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: Rubber gloves, safety glasses, lab coat, rubber apron, 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 and skin 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 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: NA

8. SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Neutralize with soda ash. 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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