



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Sulfuric Acid, 66° Be**

PRODUCT NUMBER: 58100

SYNONYMS: Battery acid, Dihydrogen Sulfate, oil of Vitriol

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H314	Causes severe skin burns and eye damage.
H402	Harmful to aquatic life.

### Precautionary Phrases

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P310	Immediately call a poison center or doctor/physician.

### HMIS CLASSIFICATION:

Health: 3      Fire: 0      Reactivity Hazard: 2      Personal: J

### NFPA RATING:

Health: 3      Flammability: 0      Reactivity Hazard: 2      Specific Hazard: W

**EYE CONTACT:** Causes severe eye burns.

**SKIN CONTACT:** Harmful if absorbed through the skin. Causes skin burns.

**INHALATION:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**INGESTION:** May be harmful if swallowed.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	Formula	Molecular Weight
Sulfuric Acid	90-99	7664-93-9	H <sub>2</sub> SO <sub>4</sub>	98.08
Water	Balance	7732-18-5	H <sub>2</sub> O	18.00

### SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

### SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not explosive

**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Sulfur oxides and hydrogen sulfide gas.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Use adequate filtration. Keep container closed when not in use.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent materials. Sweep up and place in suitable container for proper disposal.

### SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Use appropriate personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Keep away from incompatible materials.

### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### EXPOSURE CONTROLS

Component	Exposure Limits	Basis	Entity
Sulfuric Acid	0.2 mg/m <sup>3</sup>	TLV	ACGIH
	1 mg/m <sup>3</sup>	PEL	OSHA
	1 mg/m <sup>3</sup>	REL	NIOSH
	15 mg/m <sup>3</sup>	IDLH	OSHA

TLV: Threshold Limit Value over 8 hours of work.

IDLH: Immediately Dangerous to Life or Health

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

**EYE PROTECTION:** Wear chemical safety glasses or goggles, and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a full body suit.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Clear, colorless, liquid

**BOILING POINT:** 330° C

**MELTING POINT:** 10° C

**SPECIFIC GRAVITY:** 3.39 gm/ml

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Moisture

**INCOMPATIBILITY:** Bases, halides, organic material, carbides, chlorates, fulminates, nitrates, picrates, cyanides, cyclopentadine, cyclopentanone, oxime, nitroaryl amines, hexalithium disilicide, phosphorous (III) oxide, and powdered metals.

**DECOMPOSITION PRODUCTS:** Sulfur oxides and hydrogen sulfide gas.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 – Rat – 510 mg/m<sup>3</sup> – 2h. LD50 – Rat – 2,140 mg/kg.

**RTECS:** No data

**CARCINOGENIC EFFECTS:** According to IARC it is carcinogenic, and the ACGIH states it's suspected to a carcinogen. The NTP and OSHA say that no component is sufficiently linked to cancer enough for it to be a carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRAOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** May cause bleeding of nose and gums, nasal and oral mucosal ulceration, conjunctivitis, yellowing of teeth and erosion of tooth enamel.

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

**AQUATIC VERTEBRATE:** LC50 – Gambusia Affinis – 42 mg/L – 96h.

**AQUATIC INVERTEBRATE:** Not available

**TERRESTRIAL:** Not available

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

UN1830

Sulfuric Acid

Class 8

PG II

Marine Pollutant: No

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory

**DSCL (EEC):** Listed on the DSCL inventory

**SARA 302:** Sulfuric Acid

**SARA 304:** Sulfuric Acid

**SARA 311:** Sulfuric Acid

**SARA 312:** Sulfuric Acid

**SARA (TITLE 313):** Sulfuric Acid (aerosol)

**CALIFORNIA PROP. 65:** Sulfuric Acid

## **SECTION 16 OTHER INFORMATION**

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**DATE PREPARED:** 01/15

**SDS DEPT.**