



# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

**PRODUCT NAME:** Sulphamic Acid  
**PRODUCT USE:** Oil Well Fluid Additive  
**CHEMICAL FAMILY:** Amide of Sulphuric Acid

### WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

**WHMIS CLASSIFICATION:** Class E  
**WORK PLACE HAZARD:** Corrosive

### TRANSPORTATION OF DANGEROUS GOODS (TDG)

**SHIPPING NAME:** Sulphamic Acid  
**TDG CLASSIFICATION:** Class 8  
**UN NUMBER (PIN):** UN2967  
**PACKING GROUP:** III

## SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>PERCENT</u>	<u>CAS NUMBER</u>	<u>LD<sub>(50)</sub> Oral-Rat</u>	<u>TWA-8hr ppm</u>
Sulphamic Acid	99%	5329-14-6	1600 mg/kg	1 mg/m <sup>3</sup>

## SECTION III: TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY:**     SKIN         EYE CONTACT         INHALATION         INGESTION

**EYE CONTACT:**        May cause irritation to the eyes.

**SKIN CONTACT:**        May cause irritation to the skin; may cause dermatitis.

**INGESTION:**            May cause burns to mouth, throat, and esophagus.

**INHALATION:**            Will be irritating to mucous membranes of nose, throat and upper respiratory tract.

## SECTION IV: FIRST AID MEASURES

**SKIN CONTACT:** Wash with soap and running water for 15 minutes. Wash clothes prior to reuse. If irritation persists get medical attention.



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- EYE CONTACT:** Flush with running water for 15 minutes holding the eye lid open. Call a physician.
- INGESTION:** Do not induce vomiting. Immediately give 3 glasses of water or milk. Milk of magnesia may be used as a neutralizer. Call for immediate medical help. Keep patient warm and at rest.
- INHALATION:** Remove patient to fresh air. Administer oxygen if breathing is difficult. Administer CPR if breathing has ceased. Call a physician.

## SECTION V: PHYSICAL DATA

<b>APPEARANCE AND ODOUR:</b>	White crystalline solid, Odourless
<b>SPECIFIC GRAVITY:</b>	2.126 g/cc
<b>BOILING POINT (°C):</b>	205°C
<b>MELTING POINT (°C):</b>	408°C
<b>pH:</b>	1.18 ( 1% solution)
<b>SOLUBILITY IN WATER:</b>	47.1 g/L. at 80°C.
<b>PERCENT VOLATILE BY VOLUME:</b>	None
<b>EVAPORATION RATE:</b>	Not volatile
<b>VAPOUR PRESSURE (mm Hg):</b>	N/A
<b>VAPOUR DENSITY (Air = 1):</b>	N/A

## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

<b>FLASH POINT:</b>	Not Flammable
<b>FLAMMABLE LIMITS:</b>	N/A
<b>EXTINGUISHING MEDIA:</b>	CO <sub>2</sub> , Water, Mist, Foam
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Fire fighters must wear appropriate breathing apparatus/clothing. May release sulphur dioxide, sulphur trioxide, and ammonia gas.
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	Water solution of Sulphamic Acid is strongly acidic.

## SECTION VII: REACTIVITY DATA

<b>STABILITY:</b>	Stable [XX]	Unstable [ ]
<b>INCOMPATIBILITY (CONDITIONS TO AVOID):</b>	Strong oxidizing agents, chlorine, hypochlorous acid, cyanide or sulphur in aqueous solution.	



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<b>CONDITIONS OF REACTIVITY:</b>	Heat
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	It is possible to have oxides of sulphur, and nitrogen and Ammonia.
<b>HAZARDOUS POLYMERIZATION:</b>	Will Not Occur [XX]                      May Occur [ ]

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## VIII: PREVENTIVE MEASURES

### SPECIAL PROTECTION INFORMATION

<b>RESPIRATORY PROTECTION:</b>	Use an NIOSH approved dust filter.
<b>VENTILATION:</b>	Local exhaust ventilation is recommended for controlled products.
<b>PROTECTIVE GLOVES:</b>	Chemical resistant gloves.
<b>EYE PROTECTION:</b>	Chemical goggles must be worn at all times when handling this product.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Chemical resistant protective clothing must be worn at all times when handling this product. Make eye bath and emergency shower available.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Wear suitable protection for eyes and skin when handling. Avoid contact with incompatible materials. Store in cool dry well ventilated place.

### STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Use appropriate safety equipment. Avoid all bodily contact with spilled material. Small spills, sweep up and either recover or dispose in approved containers. Large spills shovel and sweep up for reclamation or disposal. Return recovered material to plant. Do not allow material to enter storm sewers or storm water inlets.

### WASTE DISPOSAL METHOD

Dispose to conform with local disposal regulations. It is the responsibility of the user of this product to determine at the time of disposal whether the product meets criteria for hazardous waste. This product lends itself to recovering for reclamation if spilled.

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## SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

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