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KAIDA YISHENG CO., LTD.  
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Tel: (852) 3589 3359 Fax: (852) 3589 3399 www.kaidayisheng.com - info@kaidayisheng.com



## 原材料说明 MATERIAL SPECIFICATION

原材料 Material: SULFAMIC ACID 99.5%

批号 Batch No: 370600WJ1630411 分子式 Formula: NH<sub>2</sub>SO<sub>3</sub>H

分子量 Molecular Weight: 97.09

外观 Appearance: WHITE CRYSTALLINE SUBSTANCE

包装 Package: IN 25KGS PLASTIC WOVEN BAG

| No | Test Item                     | Technical specification(%)  | Analysis Results(%)         |
|----|-------------------------------|-----------------------------|-----------------------------|
| 1  | Purity (%)                    | ≥99.5                       | 99.70                       |
| 2  | Sulphate (%)                  | ≤0.05                       | 0.020                       |
| 3  | Iron (%)                      | ≤0.0025                     | 0.0003                      |
| 4  | Water insoluble substance (%) | ≤0.02                       | 0.004                       |
| 5  | Loss on drying (%)            | ≤0.1                        | 0.04                        |
| 6  | Chloride (%)                  | 0.01                        | 0.003                       |
| 7  | Heavy metal (%)               | 0.001                       | 0.0001                      |
| 8  | Mesh                          | 20-100mesh                  | 20-100mesh                  |
| 9  | Look                          | White crystalline substance | White crystalline substance |
|    | Conclusion                    | First Quality               |                             |

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## MSDS FOR SULFAMIC ACID 99.5%

### 1. Product Identification

Product Name: Sulfamic Acid , Sulphamic Acid  
CAS No: 5329-14-6  
Name of Manufacturer: KAIDA YISHENG CO.,LTD.  
Address: 1301 Bank of America Tower,12 Harcourt Central,Hong Kong  
Telephone Number: (852)3589 3359  
Facsimile Number: (852+3589 3399)

### 2. Hazards Identification

#### 2.1 Emergency Overview

DANGER! CORROSIVE.MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES SEVERE IRRITATION AND BURNS TO EVERY AREA OF CONTACT.MAY CAUSE LUNG DAMAGE.  
SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe

Flammability Rating: 0 - None

Reactivity Rating: 2 - Moderate

Contact Rating: 3 - Severe (Corrosive)

Lab Protective Equip: Goggles & Shield; Lab Coat & Apron; Vent Hood; Proper Gloves

Storage Color Code: White (Corrosive)

#### 2.2 Potential Health Effects

##### 2.2.1 Inhalation:

Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. May cause pulmonary edema, a medical emergency. Pulmonary edema may be delayed up to 48 hours.

##### 2.2.2 Ingestion:

Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea.

##### 2.2.3 Skin Contact:

Corrosive. Symptoms of redness, pain, and severe burn can occur.

##### 2.2.4 Eye Contact:

Corrosive. Can cause blurred vision, redness, pain, severe tissue burns and eye damage.

##### 2.2.5 Chronic Exposure:

No information found.

##### 2.2.6 Aggravation of Pre-existing Conditions:

No information found.

#### 2.3 Label Elements:

Hazard Pictograms:



SignalWords: CORROSIVE

Hazard Statements

1. Causes serious eye irritation.
2. Causes skin irritation.
3. Harmful to aquatic life with long lasting effects.

#### Precautionary Statements

1. Wash your hands thoroughly after handling.
2. Wear protective gloves/protective clothing/eye protection/face protection.
3. Avoid release to environment.

#### First Aid Measures

If On Skin: Rinse with plenty of soap and water. If skin irritation: Get medical aid. Take off contaminated clothing and shoes. Wash clothing before reuse.

If In Eyes: Rinse cautiously with plenty of water for several minutes. Remove contact lenses if present and easy to do, continue rinsing; If serious eyes irritation: Get medical aid immediately.

Storage: Store in a cool, dry and well-ventilated place.

Disposal: Disposal of contents and containers in accordance with relevant regulations.

### 3. Composition /Information On Ingredients

Chemical or Mixture: Chemical

Chemical Name :

CAS NO : 5329-14-6

UN Dangerous Goods Number: 2967

Classification: 8

### 4. First Aid Measures

#### 4.1 Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

#### 4.2 Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### 4.3 Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### 4.4 Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

#### 4.5 Note to Physician:

For severe exposures, monitor for delayed onset of pulmonary edema.

### 5. Fire Fighting Measures

#### 5.1 Fire:

Not considered to be a fire hazard.

#### 5.2 Explosion:

Not considered to be an explosion hazard.

#### 5.3 Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

#### 5.4 Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

### 6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

### 7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from

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sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

### 8.1 Airborne Exposure Limits:

None established.

### 8.2 Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

### 8.3 Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### 8.4 Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls as needed to prevent skin contact.

### 8.5 Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

Appearance: White to colorless crystals.

Odor: Odorless.

Solubility: Soluble in water.

Density: 2.1

pH: 1.18 (1% solution @ 25C (77F))

% Volatiles by volume @ 21C (70F): 0

Boiling Point: Decomposes.

Melting Point: 205C (401F)

Vapor Density (Air=1): 3.3

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

## 10. Stability and Reactivity

### 10.1 Stability:

Stable under ordinary conditions of use and storage. Solutions are acidic. In water solution slowly hydrolyzes to form ammonium sulfate and bisulfate.

### 10.2 Hazardous Decomposition Products:

May emit ammonia, oxides of sulfur, oxides of nitrogen, and oxides of carbon.

### 10.3 Hazardous Polymerization:

Will not occur.

### 10.4 Incompatibilities:

Strong oxidizers, nitric acid, chlorine. Solutions are strong acids and react violently with bases.

### 10.5 Conditions to Avoid:

Dusting and incompatibles.

## 11. Toxicological Information

Oral rat LD50: 3160 mg/kg; Irritation data: skin human, standard Draize:4%/5D-I mild. Skin rabbit, standard Draize, 500 mg/24H severe. Eye rabbit, standard Draize: 250 ug/24H Severe.

Cancer Lists

Ingredient

NTPCarcinogen

Known Anticipated IARC Category

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Sulfamic Acid (5329-14-6) No No None

## 12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: SULFAMIC ACID

Hazard Class: 8

UN/NA: 2967

Packing Group: III

Information reported for product/size: 25KG

International (Water, I.M.O.) Proper Shipping Name: SULPHAMIC ACID

Hazard Class: 8

UN/NA: UN2967

Packing Group: III

Information reported for product/size: 25KG

International (Air, I.C.A.O.)

Proper Shipping Name: SULPHAMIC ACID

Hazard Class: 8

UN/NA: UN2967

Packing Group: III

Information reported for product/size: 25KG

## 15. Regulatory Information

Chemical Inventory Status - Part 1

Ingredient TSCA EC Japan Australia

Sulfamic Acid (5329-14-6) Yes Yes Yes Yes

Chemical Inventory Status - Part 2

Ingredient

Canada

Korea DSL NDSL Phil.

Sulfamic Acid (5329-14-6) Yes Yes No Yes

Federal, State & International Regulations - Part 1

Ingredient

SARA302 SARA313

RQ TPQ List Chemical Category

Sulfamic Acid (5329-14-6) No No No No

Federal, State & International Regulations - Part 2

Ingredient

CERCLA RCRA TSCA

261.33 8(d)

Sulfamic Acid (5329-14-6) No No No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No

Reactivity: No (Pure / Solid)

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Australian Hazchem Code: 2T  
Poison Schedule: S6

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**16. Other Information**

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 0

Revision Information: MSDS Section(s) changed since last revision of document include: 3, 14.

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