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### MATERIAL SAFETY DATA SHEET (MSDS)

### SULPHAMIC ACID LR

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : SULPHAMIC ACID LR

Product code : S0200400500

Identification of the product : Sulfamic acid  
CAS No: 5329-14-6  
EC No :226-218-8  
Annex No :016-026-00-0

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

##### 1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : Xi; R36/38  
R52-53

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP :  
Aquatic Chronic 3) H412

##### 2.2. Label elements

**MATERIAL SAFETY DATA SHEET (MSDS)**
**SULPHAMIC ACID LR**
**2. Hazards identification -DSD (continued)**
**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**

**Symbol(s)**

: Xi : Irritant

**R Phrase(s)**

: R36/38 : Irritating to eyes and skin.

R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrase(s)**

: S2 : Keep out of the reach of children.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 : After contact with skin, wash immediately with

S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Contains**

: Sulfamic acid

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**

**Signal words**

: Warning

**Hazard statements**

: H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

H412 : Harmful to aquatic life with long lasting effects.

**Precautionary statements**
**• General**

: P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

**• Prevention**

: P280: Wear protective gloves, protective clothing, eye protection, face protection.

P273: Avoid release to the environment.

P264: Wash thoroughly after handling.

**• Response**

: P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P332+P313: If skin irritation occurs : Get medical advice.

P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P363: Wash contaminated clothing before reuse.

**• Disposal considerations**

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Contains**

: Sulfamic acid

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### MATERIAL SAFETY DATA SHEET (MSDS)

#### SULPHAMIC ACID LR

#### 2. Hazards identification -DSD (continued)

##### 2.3. Other hazards

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 3. Composition/information on ingredients

**Substance / Preparation** : Sulfamic acid

EC No :226-218-8  
Annex No :016-026-00-0  
Substance.

| Substance name | Contents | CAS No    | EC No     | Annex No     | REACH Ref. | Classification   |
|----------------|----------|-----------|-----------|--------------|------------|--|
| Sulfamic acid  | 100 %    | 5329-14-6 | 226-218-8 | 016-026-00-0 | ----       | Xi: R36/38<br>R52-53<br>-----<br>Eye irrit 2_ H319<br>Skin Irrit. 2_ H315<br>Aquatic Chronic 3_ H412 |

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

##### 4.1. Description of first aid measures

**Inhalation** : Assure fresh air breathing. Allow the victim to rest.  
**Skin contact** : Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse.  
**Eye contact** : Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.  
**Ingestion** : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.

##### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms relating to use** : Causes serious eye irritation.  
Causes skin irritation.

##### 4.3. Indication of any immediate medical attention and special treatment needed

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

**MATERIAL SAFETY DATA SHEET (MSDS)**
**SULPHAMIC ACID LR**
**5. Fire-fighting measures (continued)**

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
**Unsuitable extinguishing media** : Do not use a heavy water stream.  
**Surrounding fires** : Use water spray or fog for cooling exposed containers.

**5.2. Special hazards arising from the substance or mixture**

- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

**5.3. Advice for fire-fighters**

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.  
**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

- For emergency responders** : Equip cleanup crew with proper protection.  
 Ventilate area.  
**For non-emergency personnel** : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.  
 Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

- Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
 Store away from other materials.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

- Handling** : Wash thoroughly after handling. Wash thoroughly after handling.  
 Wash thoroughly after handling.

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**SULPHAMIC ACID LR**
**7. Handling and storage (continued)**

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

**Specific end use(s)** : None.

**8. Exposure controls/personal protection**
**8.1. Exposure controls**

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **Hand protection** : Wear protective gloves.
- **Skin protection** : Wear suitable protective clothing.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

**8.2. Control parameters**

**Occupational Exposure Limits** : No data available.

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

**Physical state at 20 °C** : Solid.

**Colour** : White powder

**Odour** : Odorless

**Odour threshold** : No data available.

**pH value** : Not applicable.

**Melting point [°C]** : 215 - 225 °C

**Decomposition point [°C]** : N/A

**Critical temperature [°C]** : N/A

**Auto-ignition temperature [°C]** : N/A

**Flammability (solid, gas)** : N/A

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**SULPHAMIC ACID LR**
**9. Physical and chemical properties (continued)**

|  |                      |
|--|----------------------|
| Flash point [°C]                       | : N/A                |
| Boiling point [°C]                     | : N/A                |
| Initial boiling point [°C]             | : N/A                |
| Final boiling point [°C]               | : N/A                |
| Evaporation rate                       | : N/A                |
| Vapour pressure [20°C]                 | : N/A                |
| Vapour pressure mm/Hg                  | : N/A                |
| Vapour density                         | : 3,3                |
| Density [g/cm <sup>3</sup> ]           | : 2,15               |
| Relative density, gas (air=1)          | : N/A                |
| Relative density, liquid (water=1)     | : N/A                |
| Solubility in water [% weight]         | : Soluble in water   |
| Solubility in water                    | : N/A                |
| Log Pow octanol / water at 20°C        | : No data available. |
| Solubility                             | : 1.18               |
| Viscosity at 40°C [mm <sup>2</sup> /s] | : N/A                |

**9.2. Other information**

|                              |                      |
|------------------------------|----------------------|
| Explosive properties         | : N/A                |
| Explosion limits - upper [%] | : N/A                |
| Explosion limits - lower [%] | : N/A                |
| Oxidising properties         | : No data available. |

**10. Stability and reactivity**
**10.1. Reactivity**

|            |                    |
|------------|--------------------|
| Reactivity | : Not established. |
|------------|--------------------|

**10.2. Chemical stability**

|                    |  |
|--------------------|--|
| Chemical stability | : Stable under recommended storage conditions. |
|--------------------|--|

**10.3. Possibility of hazardous reactions**

|                     |                    |
|---------------------|--------------------|
| Hazardous reactions | : Not established. |
|---------------------|--------------------|

**10.4. Conditions to avoid**

|                     |  |
|---------------------|--|
| Conditions to avoid | : Direct sunlight. Extremely high or low temperatures. |
|---------------------|--|

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**SULPHAMIC ACID LR**
**10. Stability and reactivity (continued)**
**10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Based on available data, the classification criteria are not met.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Causes serious eye irritation.  
Causes skin irritation.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : Harmful to aquatic life with long lasting effects.

**12.2. Persistence - degradability**

**Persistence - degradability** : May cause long-term adverse effects in the environment.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.



## MATERIAL SAFETY DATA SHEET (MSDS)

### SULPHAMIC ACID LR

#### 12. Ecological information (continued)

##### 12.4. Mobility in soil

Mobility in soil : Not established.

##### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment :** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

##### 12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

#### 13. Disposal considerations

##### 13.1. Waste treatment methods

**General :** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 14. Transport information

##### 14.1. Land transport (ADR-RID)

Proper shipping name : SULPHAMIC ACID  
UN N° : 2967  
H.I. nr : 80  
ADR - Class : 8  
Labelling - Transport : 8 : Corrosive substance.



ADR - Classification code : C2  
C2  
ADR - Group : III  
ADR - Packing instructions : P002 R001 LP002  
ADR - Limited Quantity : 5 KG  
ADR - Tunnel code : E : Passage forbidden through tunnels of category E.



## MATERIAL SAFETY DATA SHEET (MSDS) SULPHAMIC ACID LR

### 14. Transport information (continued)



#### 14.2. Sea transport (IMDG) [English only]

|                                 |                            |
|---------------------------------|----------------------------|
| Proper shipping name            | : SULPHAMIC ACID           |
| UN N°                           | : 2967                     |
| IMO-IMDG - Class or division    | : 8 : Corrosive substance. |
| IMO-IMDG - Packing group        | : III                      |
| IMO-IMDG - Packing instructions | : P002 LP02                |
| IMO-IMDG - Limited quantities   | : 5 kg                     |
| IMO-IMDG - Marine pollution     | : No                       |
| EMS-Nr                          | : F-A S-B                  |

#### 14.3. Air transport (ICAO-IATA) [English only]

|  |                            |
|--|----------------------------|
| Proper shipping name                             | : SULPHAMIC ACID           |
| UN N°  | : 2967                     |
| IATA - Class or division                         | : 8 : Corrosive substance. |
| IATA - Packing group                             | : III                      |
| IATA - Passenger and Cargo Aircraft              | : ALLOWED                  |
| - Passenger and Cargo - Packing instruction      | : 860                      |
| - Passenger and Cargo - Maximum Quantity/Packing | : 25 kg                    |
| IATA - Cargo only                                | : ALLOWED                  |
| - Cargo only - Packing instruction               | : 864                      |
| - Cargo only - Maximum Quantity/Packing          | : 100 kg                   |
| IATA - Limited Quantities                        | : 5 kg                     |
| ERG-Nr   | : 8L                       |

### 15. Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.

## MATERIAL SAFETY DATA SHEET (MSDS)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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**End of document**