

# Material Safety Data Sheet



**SULPHAMIC ACID**

**VERSION : 02**

**DATE OF ISSUE : 26-08-2019**

**SUPERSEDES : 01**

**Product Code : 19160**

**Page 1 of 9**

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

### **1.1. Product identifier**

**Trade name :** SULPHAMIC ACID

**Product code :** 19160

**Identification of the product :** Sulfamic acid

**CAS No :** 5329-14-6

### **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 :** MOLYCHEM

**Office:** 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

**Email :** [info@molychem.net](mailto:info@molychem.net)

**Works:** Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

### **1.4. Emergency telephone number**

**Emergency number :** +91 22 4066 8111 (10:00am - 6:00 pm).

## **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**

**Labelling EC 67/548 or EC 1999/45**

**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

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**VERSION : 02**

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**SUPERSEDES : 01**

**Product Code : 19160**

**Page 2 of 9**

medical advice.

S28 : After contact with skin, wash immediately with

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

## **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.

### **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

CAS No :5329-14-6

Substance.

**Substance name**

**Contents**

**CAS No**

**Sulfamic acid :**

100 %

5329-14-6

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**SUPERSEDES : 01**

**Product Code : 19160**

**Page 3 of 9**

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** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.

**Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

### **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**

**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**

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**SUPERSEDES : 01**

**Product Code : 19160**

**Page 4 of 9**

**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.

**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.

**Odour threshold :** No data available.

**pH value :** Not applicable.

**Melting point [°C] :** 215 - 225 °C

**Decomposition point [°C] :** N/A

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**SUPERSEDES : 01**

**Product Code : 19160**

**Page 5 of 9**

**Critical temperature [°C] : N/A**  
**Auto-ignition temperature [°C] : N/A**  
**Flammability (solid, gas) : N/A**  
**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.**

### **10.5. Incompatible materials**

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

### **10.6. Hazardous decomposition products**

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

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**SUPERSEDES : 01**

**Product Code : 19160**

**Page 6 of 9**

## **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.

### **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.

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**SUPERSEDES : 01**

**Product Code : 19160**

**Page 7 of 9**

## **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**

**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.**

### **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 : 860**

**instruction**

**- Passenger and Cargo - Maximum : 25 kg**

**Quantity/Packing**

**IATA - Cargo only : ALLOWED**

**- Cargo only - Packing instruction : 864**

**- Cargo only - Maximum Quantity/ : 100 kg**

**Packing**

**IATA - Limited Quantities : 5 kg**

**ERG-Nr : 8L**

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**SUPERSEDES : 01**

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**Page 8 of 9**

## **15. Regulatory information**

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

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

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

## **15.2. Chemical Safety Assessment**

**Chemical Safety Assessment** : It has not been carried out.

## **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

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## **End of document**

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<b>Product Code : 19160</b>	<b>Page 9 of 9</b>

**Kulgaon, Badlapur (E), Dist.-Thane-421 503**

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