

# Material Safety Data Sheet



**SULPHAMIC ACID AR**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 26320**

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

### 1.1. Product identifier

Trade name : SULPHAMIC ACID AR  
Product code : 26320  
Identification of the product : SULPHAMIC ACID AR  
CAS No : 5329-14-6  
EC Index-No. : 016-026-00-0  
EC No. : 226-218-8  
Synonyms : Amidosulphonic acid

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

**Company identification**  
MOLYCHEM INDIA LLP  
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 .  
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

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Hazardous to the aquatic environment – H412  
Chronic Hazard, Category 3

Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

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

### 2.2. Label elements

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Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07 GHS09

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H315 - Causes skin irritation.

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P273 - Avoid release to the environment.

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## 3. Composition/information on ingredients

### 3.1. Substances

Name : SULPHAMIC ACID AR

CAS-No : 5329-14-6

### 3.2. Mixtures

Not applicable

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash skin with plenty of water. Take off contaminated clothing. If

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First-aid measures after eye contact : skin irritation occurs: Get medical advice/attention.  
: 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/attention. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Causes skin irritation. Irritation

Symptoms/effects after eye contact : Causes serious eye irritation. Eye irritation.

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

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Dry powder.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8:

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Emergency procedures

"Exposure controls/ personal protection"  
: Stop release.

## 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product. Large spills: scoop solid spill into closing containers.

Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in original container. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Storage away from : Direct sunlight. Air contact. Moisture.

### 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

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No additional information available

## 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

## 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| Eye protection         | : Chemical goggles or safety glasses                                                      |
| Hand protection        | : Wear protective gloves                                                                  |
| Skin protection        | : Wear suitable protective clothing                                                       |
| Respiratory protection | : Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection. |
| Thermal hazards        | : No additional information available                                                     |

### 8.2.3 Environmental exposure controls

Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                           |                       |
|---------------------------|-----------------------|
| Physical state            | : Solid               |
| Appearance                | : crystalline powder. |
| Molecular mass            | : 97.09 g/mol         |
| Colour                    | : White               |
| Odour                     | : Odourless.          |
| Odour threshold           | : Not available       |
| pH                        | : Not available       |
| Melting point             | : 205 °C              |
| Freezing point            | : Not applicable      |
| Boiling point             | : Not available       |
| Flash point               | : Not applicable      |
| Auto-ignition temperature | : > 400 °C            |
| Decomposition temperature | : 209 °C              |

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|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Flammability (solid, gas)                       | : Non flammable.                 |
| Vapour pressure                                 | : 0.8 Pa at 20°C                 |
| Relative vapour density at 20 °C                | : 3.3                            |
| Relative density                                | : Not available                  |
| Density                                         | : 2.15 g/cm <sup>3</sup> at 25°C |
| Solubility                                      | : Water: Soluble in water        |
| Partition coefficient n-octanol/water (Log kow) | : Not available                  |
| Viscosity, kinematic                            | : Not applicable                 |
| Explosive limits                                | : Not applicable                 |

## 9.2. Other information

No additional information available

## 10. Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

### 11.1. Information on toxicological effects

|                               |                                  |
|-------------------------------|----------------------------------|
| Acute toxicity (oral)         | : Not classified                 |
| Acute toxicity (dermal)       | : Not classified                 |
| Acute toxicity (inhalation)   | : Not classified                 |
| Skin corrosion/irritation     | : Causes skin irritation         |
| Additional information        | : Not classified                 |
| Serious eye damage/irritation | : Causes serious eye irritation. |

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|                                   |                  |
|-----------------------------------|------------------|
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |
| STOT-single exposure              | : Not classified |
| STOT-repeated exposure            | : Not classified |
| Aspiration hazard                 | : Not classified |

## 12. Ecological information

### 12.1. Toxicity

|                                                           |                                                    |
|-----------------------------------------------------------|----------------------------------------------------|
| Ecology - general                                         | Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | Not classified                                     |
| Hazardous to the aquatic environment, long-term (chronic) | Harmful to aquatic life with long lasting effects. |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## 13. Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                               |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                 |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

## 14. Transport information

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In accordance with ADR / IMDG / IATA / ADN / RID

## 14.1. UN number

UN-No. (ADR) : UN 2967  
UN-No. (IMDG) : UN 2967  
UN-No. (IATA) : UN 2967  
UN-No. (ADN) : UN 2967  
UN-No. (RID) : UN 2967

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : SULPHAMIC ACID  
Proper Shipping Name (IMDG) : SULPHAMIC ACID  
Proper Shipping Name (IATA) : Sulphamic acid  
Proper Shipping Name (ADN) : SULPHAMIC ACID  
Proper Shipping Name (RID) : SULPHAMIC ACID  
Transport document description (ADR) : UN 2967 SULPHAMIC ACID, 8, III, (E)  
Transport document description (IMDG) : UN 2967 SULPHAMIC ACID, 8, III  
Transport document description (IATA) : UN 2967 Sulphamic acid, 8, III  
Transport document description (ADN) : UN 2967 SULPHAMIC ACID, 8, III  
Transport document description (RID) : UN 2967 SULPHAMIC ACID, 8, III

## 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : 8  
Danger labels (ADR) : 8

### IMDG

Transport hazard class(es) (IMDG) : 8  
Danger labels (IMDG) : 8

### IATA

Transport hazard class(es) (IATA) : 8  
Danger labels (IATA) : 8

### ADN

Transport hazard class(es) (ADN) : 8  
Danger labels (ADN) : 8

### RID

Transport hazard class(es) (RID) : 8  
Danger labels (RID) : 8

## 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : III

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Packing group (RID) : III

## 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

## 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : C2  
Limited quantities (ADR) : 5kg  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P002, IBC08, LP02, R001  
Mixed packing provisions (ADR) : MP10  
Portable tank and bulk container instructions (ADR) : T1  
Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : SGAV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Hazard identification number (Kemler No.) : 80  
Tunnel restriction code (ADR) : E  
EAC code : 2X

### Transport by sea

Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P002, LP02  
IBC packing instructions (IMDG) : IBC08  
Tank instructions (IMDG) : T1  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : A  
MFAG-No : 154

### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y845  
PCA limited quantity max net quantity (IATA) : 5kg  
PCA packing instructions (IATA) : 860  
PCA max net quantity (IATA) : 25kg

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CAO packing instructions (IATA) : 864  
CAO max net quantity (IATA) : 100kg  
ERG code (IATA) : 8L

## **Inland waterway transport**

Classification code (ADN) : C2  
Limited quantities (ADN) : 5 kg  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

## **Rail transport**

Classification code (RID) : C2  
Limited quantities (RID) : 5kg  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P002, IBC08, LP02, R001  
Mixed packing provisions (RID) : MP10  
Portable tank and bulk container instructions (RID) : T1  
Portable tank and bulk container special provisions (RID) : TP33  
Tank codes for RID tanks (RID) : SGAV  
Transport category (RID) : 3  
Colis express (express parcels) (RID) : CE11  
Hazard identification number (RID) : 80

## **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

## **15. Regulatory information**

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

#### **15.1.1 EU-Regulations**

No REACH Annex XVII restrictions

SULPHAMIC ACID is not on the REACH Annex XIV List

SULPHAMIC ACID is not on the REACH Candidate List

SULPHAMIC ACID is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals

SULPHAMIC ACID is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

SULPHAMIC ACID is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

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Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

## 15.1.2. National regulations

### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water  
(Classification according to AwSV; ID No. 1266).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance  
(12. BImSchV)

### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed  
SZW-lijst van mutagene stoffen : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed  
SZW-lijst van reprotoxische stoffen –  
Vruchtbaarheid : The substance is not listed  
SZW-lijst van reprotoxische stoffen –  
Ontwikkeling : The substance is not listed

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. Other information

### Abbreviations and acronyms

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand                                                                       |
| COD    | Chemical oxygen demand                                                                          |
| COD    | Chemical oxygen demand                                                                          |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |

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# Material Safety Data Sheet



**SULPHAMIC ACID AR**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 26320**

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|                                           |                                                                              |
|-------------------------------------------|------------------------------------------------------------------------------|
| EC50                                      | Median effective concentration                                               |
| EN                                        | European Standard                                                            |
| IARC                                      | International Agency for Research on Cancer                                  |
| IATA                                      | International Air Transport Association                                      |
| IMDG                                      | International Maritime Dangerous Goods                                       |
| LC50                                      | Median lethal concentration                                                  |
| LD50                                      | Median lethal dose                                                           |
| LOAEL                                     | Lowest Observed Adverse Effect Level                                         |
| NOAEC                                     | No-Observed Adverse Effect Concentration                                     |
| NOAEL                                     | No-Observed Adverse Effect Level                                             |
| NOEC                                      | No-Observed Effect Concentration                                             |
| OECD                                      | Organisation for Economic Co-operation and Development                       |
| OEL                                       | Occupational Exposure Limit                                                  |
| PBT                                       | Persistent Bioaccumulative Toxic                                             |
| PNEC                                      | Predicted No-Effect Concentration                                            |
| RID                                       | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                                       | Safety Data Sheet                                                            |
| STP                                       | Sewage treatment plant                                                       |
| ThOD                                      | Theoretical oxygen demand (ThOD)                                             |
| TLM                                       | Median Tolerance Limit                                                       |
| VOC                                       | Volatile Organic Compounds                                                   |
| CAS-No.                                   | Chemical Abstract Service number                                             |
| N.O.S.                                    | Not Otherwise Specified                                                      |
| vPvB                                      | Very Persistent and Very Bioaccumulative                                     |
| ED                                        | Endocrine disrupting properties                                              |
|                                           |                                                                              |
| <b>Full text of H- and EUH-statements</b> |                                                                              |
| Eye Irrit. 2                              | Serious eye damage/eye irritation, Category 2                                |
| Flam. Liq. 2                              | Flammable liquids, Category 2                                                |
| STOT SE 3                                 | Specific target organ toxicity — Single exposure, Category 3, Narcosis       |
| H225                                      | Highly flammable liquid and vapour.                                          |
| H319                                      | Causes serious eye irritation.                                               |
| H336                                      | May cause drowsiness or dizziness.                                           |
| EUH066                                    | Repeated exposure may cause skin dryness or cracking.                        |

Safety Data Sheet (SDS), EU This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## MOLYCHEM INDIA LLP

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