

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### GUANIDINE HYDROCHLORIDE (FOR SYNTHESIS)

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

##### 1.1. Product identifier

Trade name : GUANIDINE HYDROCHLORIDE (FOR SYNTHESIS)

Product code : G0105200500

Identification of the product : Guanidinium chloride  
 CAS No: 50-01-1  
 EC No :200-002-3  
 Annex No :607-148-00-0

##### 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 : Xn; R22  
 Xi; R36/38

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

Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302  
 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315  
 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

##### 2.2. Label elements

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

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

Symbol(s)



Symbol(s)

: Xn : Harmful

R Phrase(s)

: R22 : Harmful if swallowed.

R36/38 : Irritating to eyes and skin.

S Phrase(s)

: S2 : Keep out of the reach of children.

S22 : Do not breathe dust.

Contains

: Guanidinium chloride

#### Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Warning

Hazard statements

: H302 : Harmful if swallowed.

H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

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.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• Response

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

P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.

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

: Guanidinium chloride

#### 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.

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### GUANIDINE HYDROCHLORIDE (FOR SYNTHESIS)

#### 3. Composition/information on ingredients

**Substance / Preparation** : Guanidinium chloride

EC No :200-002-3  
 Annex No :607-148-00-0  
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Guanidinium chloride	100 %	50-01-1	200-002-3	607-148-00-0	----	Xn; R22 Xi; R36/38 <hr/> Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315

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** : Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation occurs : Get medical advice. Specific treatment (see on this label).

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

**Ingestion** : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

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

**Symptoms relating to use** : Swallowing a small quantity of this material will result in serious health hazard.  
 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

## MATERIAL SAFETY DATA SHEET (MSDS)

### GUANIDINE HYDROCHLORIDE (FOR SYNTHESIS)

#### 5. Fire-fighting measures (continued)

**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.

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

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

##### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

**Handling** : Do not eat, drink or smoke when using this product. 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.

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### GUANIDINE HYDROCHLORIDE (FOR SYNTHESIS)

#### 7. Handling and storage (continued)

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 : No data available.

Melting point [°C] : 185 - 189 °C

Decomposition point [°C] : N/A

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

## MATERIAL SAFETY DATA SHEET (MSDS)

### GUANIDINE HYDROCHLORIDE (FOR SYNTHESIS)

#### 9. Physical and chemical properties (continued)

Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: 1.345 g/cm <sup>3</sup> at 20 °C
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 573 g/l at 20 °C - c
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 4.5 - 6.0 at 573 g/l
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.
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##### 10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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##### 10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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##### 10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
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##### 10.5. Incompatible materials

Materials to avoid	: Strong acids. Strong bases.
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##### 10.6. Hazardous decomposition products

## MATERIAL SAFETY DATA SHEET (MSDS)

### GUANIDINE HYDROCHLORIDE (FOR SYNTHESIS)

#### 10. Stability and reactivity (continued)

**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** : Harmful if swallowed.

**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** : Not established.

##### 12.2. Persistence - degradability

**Persistence - degradability** : Biodegradable.

##### 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



## MATERIAL SAFETY DATA SHEET (MSDS)

### GUANIDINE HYDROCHLORIDE (FOR SYNTHESIS)

#### 12. Ecological information (continued)

**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)

**General information :** Not regulated.

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

**General information :** Not regulated.

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

**General information :** Not regulated.

#### 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.

**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



**MATERIAL SAFETY DATA SHEET (MSDS)**  
**GUANIDINE HYDROCHLORIDE (FOR SYNTHESIS)**

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

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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