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MATERIAL SAFETY DATA SHEET (MSDS)

AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)

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

1.1. Product identifier

Trade name : AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)

Product code : A0022700500

Identification of the product : Aminoguanidine bicarbonate
 CAS No :2582-30-1
 EC No :219-956-7

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 : R43
 N; R51-53

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

Health hazards : Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
 Physical hazards : Substances and mixtures, which in contact with water, emit flammable gases -
 Category 1 - Danger (CLP : Water-react. 1) H260
 Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP :
 Aquatic Chronic 2) H411

2.2. Label elements

MATERIAL SAFETY DATA SHEET (MSDS)
AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)
2. Hazards identification -DSD (continued)
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

 : Xi : Irritant
 : N : Dangerous for the environment

R Phrase(s)

 : R43 : May cause sensitization by skin contact.
 : R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s)

: S36/37 : Wear suitable protective clothing and gloves.

Contains

: Aminoguanidine bicarbonate

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

 : H260 : In contact with water releases flammable gases which may ignite spontaneously.
 : H317 : May cause an allergic skin reaction.
 : H411 : Toxic to aquatic life with long lasting effects.

Precautionary statements
• Prevention

 : P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire.
 : P231+P232: Handle under inert gas. Protect from moisture.
 : P280: Wear protective gloves, protective clothing, eye protection, face protection.
 : P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
 : P273: Avoid release to the environment.
 : P272: Contaminated work clothing should not be allowed out of the workplace.

• Response

 : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 : P391: Collect spillage.
 : P333+P313: If skin irritation or rash occurs : Get medical advice.
 : P363: Wash contaminated clothing before reuse.
 : P335+P334: Brush off loose particles from skin. Immerse in cool water, wrap in wet bandages.
 : P370+P378: In case of fire: Use for extinction.

• Storage

: P402+P404: Store in a dry place. Store in a closed container.

• 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.

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MATERIAL SAFETY DATA SHEET (MSDS)

AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)

2. Hazards identification -DSD (continued)

Contains : Aminoguanidine bicarbonate

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 : Aminoguanidine bicarbonate
 CAS No :2582-30-1
 EC No :219-956-7
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Aminoguanidine bicarbonate	:	2582-30-1	219-956-7	----	----	R43 N; R51-53 ----- Skin Sens. 1 _ H317 Aquatic Chronic 2 _ H411

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 : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Brush off loose particles from skin. Immerse in cool water, wrap in wet bandages. Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs : Specific treatment (see on this label). Get medical advice.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

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 : May cause an allergic skin reaction.

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).

MATERIAL SAFETY DATA SHEET (MSDS)

AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)

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

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

MATERIAL SAFETY DATA SHEET (MSDS)
AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)
7. Handling and storage (continued)

- Handling** : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Wash contaminated clothing before reuse. Protect from moisture. Handle under inert gas. Contaminated work clothing should not be allowed out of the workplace. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Avoid breathing dust, fume, gas, mist, vapours, spray.
- 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. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Protect from moisture.
- 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.
 - **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** : Powder
- Colour** : Colorless
- Odour** : Odourless
- Odour threshold** : No data available.
- pH value** : 8,9 at 5 g/l at 20 °C

MATERIAL SAFETY DATA SHEET (MSDS)
AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)
9. Physical and chemical properties (continued)

Melting point [°C]	: 170 - 172° C
Decomposition point [°C]	: No data available.
Critical temperature [°C]	: Not applicable.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: No data available.
Flash point [°C]	: Not applicable.
Initial boiling point [°C]	: Not applicable.
Final boiling point [°C]	: Not applicable.
Evaporation rate	: Not applicable.
Vapour pressure [20°C]	: No data available.
Vapour density	: No data available.
Density [g/cm ³]	: 1,56 g/cm ³ at 20 °C
Relative density, liquid (water=1)	: Not applicable.
Solubility in water	: 3,3 g/l at 30°C 2,7 g/l at 20°C
Log Pow octanol / water at 20°C	: No data available.
Viscosity at 40°C [mm ² /s]	: No data available.

9.2. Other information

Explosive properties	: No data available.
Explosion limits - upper [%]	: No data available.
Explosion limits - lower [%]	: No data available.
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	: In contact with water releases flammable gases which may ignite spontaneously.
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10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
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MATERIAL SAFETY DATA SHEET (MSDS)
AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)
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 : Based on available data, the classification criteria are not met.

Sensitization : May cause an allergic skin reaction.

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 : Toxic 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

MATERIAL SAFETY DATA SHEET (MSDS)

AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)

12. Ecological information (continued)

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 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N° : 3077
H.I. nr : 90
ADR - Class : 9
Labelling - Transport : 9 : Miscellaneous dangerous substances and articles.



ADR - Classification code : M7
 M7
 M7
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 M7
 M7
ADR - Group : III

MATERIAL SAFETY DATA SHEET (MSDS)
AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)
14. Transport information (continued)

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 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN N° : 3077

IMO-IMDG - Class or division : 9 : Miscellaneous dangerous substances and articles.

IMO-IMDG - Packing group : III

IMO-IMDG - Packing instructions : P002 LP02

IMO-IMDG - Limited quantities : 5 kg

IMO-IMDG - Marine pollution : Yes

EMS-Nr : F-A S-F

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

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN N° : 3077

IATA - Class or division : 9 : Miscellaneous dangerous substances and articles.

IATA - Packing group : III

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing instruction : 956

- Passenger and Cargo - Maximum Quantity/Packing : 400 kg

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 956

- Cargo only - Maximum Quantity/Packing : 400 kg

IATA - Limited Quantities : 30 kg G

ERG-Nr : 9L

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

MATERIAL SAFETY DATA SHEET (MSDS)
AMINO GUANIDINE BICARBONATE (FOR SYNTHESIS)
15. Regulatory information (continued)

- 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

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

16. Other information

- Revision** : Revision - See : *
- 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
- List of relevant R phrases (heading 3)** : R43 : May cause sensitization by skin contact.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- List of full text of H-statements in section 3** : H317 : May cause an allergic skin reaction.
H411 : Toxic to aquatic life with long lasting effects.
- Further information** : None.

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

DISCLAIMER:

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- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
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