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# **Amino Guanidine Bicarbonate** CAS No 2582-30-1

# **MATERIAL SAFETY DATA SHEET** SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertakin	g
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1.1	Product identifiers Product name	:	Amino Guanidine Bicarbonate
	CAS-No.	:	2582-30-1
1.2	2 Relevant identified uses of the substance or mixture and uses advised against		e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	3 Details of the supplier of the safety data sheet		afety data sheet
	Company	:	Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA
	Telephone Email		+91 11 49404040 care@cdhfinechemical.com

#### 1.4 **Emergency telephone number** Emergency Phone # +91 11 49404040 (9:00am - 6:00 pm) [Office hours] :

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 Skin sensitisation (Category 1), H317

Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

Signal word

Labelling according Regulation (EC) No 1272/2008 Pictogram



Hazard statement(s) H317 H411 Precautionary statement(s) P273 P280

May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Avoid release to the environment. Wear protective gloves.

Supplemental Hazard	none
Statements	

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

: CH <sub>6N4</sub> . H2CO3
: 136.11 g/mol
: 2582-30-1
: 219-956-7

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
Aminoguanidinium ł CAS-No. EC-No.	nydrogen carbonate 2582-30-1 219-956-7	Skin Sens. 1; Aquatic Chronic 2; H317, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

## If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)

#### **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information No data available

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

# **6.2** Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections** For disposal see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

5.1		ormation on basic physic	ai and chemical properties
	a)	Appearance	Form: powder Colour: white
	b)	Odour	odourless
	c)	Odour Threshold	No data available
	d)	рН	8.9 at 5 g/l at 20 °C
	e)	Melting point/freezing point	Melting point/range: 170 - 172 °C - dec.
	f)	Initial boiling point and boiling range	No data available
	g)	Flash point	No data available
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	No data available
	j)	Upper/lower flammability or explosive limits	No data available
	k)	Vapour pressure	No data available
	I)	Vapour density	No data available
	m)	Relative density	1.56 g/cm3 at 20 °C
	n)	Water solubility	No data available
	o)	Partition coefficient: n- octanol/water	No data available
	p)	Auto-ignition temperature	No data available
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
9.2		<b>ner safety information</b> data available	
SECTION 10: Stability and reactivity			
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## 10.1 Reactivity No data available

- 10.2 Chemical stability Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid Heat Exposure to light. hygroscopic
- 10.5 Incompatible materials Strong oxidizing agents, Nitric acid, Nitrites

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available In the event of fire: see section 5

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - > 5,000 mg/kg(Aminoguanidinium hydrogen carbonate) LD50 Intraperitoneal - Rat - 1,160 mg/kg(Aminoguanidinium hydrogen carbonate)

#### Skin corrosion/irritation

Skin - Rabbit(Aminoguanidinium hydrogen carbonate) Result: No skin irritation

#### Serious eye damage/eye irritation

Eyes - Rabbit(Aminoguanidinium hydrogen carbonate) Result: No eye irritation

#### Respiratory or skin sensitisation

- Rabbit(Aminoguanidinium hydrogen carbonate) May cause allergic skin reaction.

## Germ cell mutagenicity

No data available(Aminoguanidinium hydrogen carbonate)

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## **Reproductive toxicity**

No data available(Aminoguanidinium hydrogen carbonate)

## Specific target organ toxicity - single exposure

No data available(Aminoguanidinium hydrogen carbonate)

## Specific target organ toxicity - repeated exposure

Ingestion - Liver

#### Aspiration hazard

No data available(Aminoguanidinium hydrogen carbonate)

#### **Additional Information**

RTECS: FG1772000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Aminoguanidinium hydrogen carbonate)

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to fish	LC50 - Danio rerio (zebra fish) - 1,585 mg/l   - 96 h(Aminoguanidinium hydrogen carbonate)
	LC50 - Danio rerio (zebra fish) - 1,000 mg/l   - 96 h(Aminoguanidinium hydrogen carbonate)
Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available(Aminoguanidinium hydrogen carbonate)
Toxicity to algae	IC50 - Desmodesmus subspicatus (green algae) - 10 mg/l - 72 h(Aminoguanidinium hydrogen carbonate)

## 12.2 Persistence and degradability

Biodegradability

Chemical oxygen demand - Exposure time 28 d(Aminoguanidinium hydrogen carbonate) Result: 0 % - Not readily biodegradable. (OECD Test Guideline 301) aerobic Chemical oxygen demand - Exposure time 28 d(Aminoguanidinium hydrogen carbonate) Result: 38 % - Not readily biodegradable. (OECD Test Guideline 302)

12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available(Aminoguanidinium hydrogen carbonate)

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

## Contaminated packaging

Dispose of as unused product.

## **SECTION 14: Transport information**

14.1	UN numbe ADR/RID: 3	_	IMDG: 3077	IATA: 3077
14.2	• •	shipping name ENVIRONMENTALLY I	HAZARDOUS SUBSTANCE, SOLID	, N.O.S. (Aminoguanidinium
	IMDG:	hydrogen carbonate) ENVIRONMENTALLY   hydrogen carbonate)	HAZARDOUS SUBSTANCE, SOLID	, N.O.S. (Aminoguanidinium
	IATA:	, ,	dous substance, solid, n.o.s. (Amino	guanidinium hydrogen carbonate)
14.3	Transport h ADR/RID: 9	nazard class(es)	IMDG: 9	IATA: 9
14.4	Packaging ADR/RID: I	• •	IMDG: III	IATA: III
14.5	Environme ADR/RID: y	<b>ntal hazards</b> /es	IMDG Marine pollutant: no	IATA: yes
116	Special pro	cautions for usor		

## 14.6 Special precautions for user

## **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## **SECTION 15: Regulatory information**

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

## Full text of H-Statements referred to under sections 2 and 3.

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

## **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.