TCI AMERICA

# Material Safety Data Sheet

| HAZARD WARNINGS | RISK PHRASES | PROTECTIVE CLOTHING |
|---|---|---|
| | **The health risks of this compound have not been fully determined. Exposure may cause irritation of the skin, eyes, and respiratory system.** |  |

## Section I. Chemical Product and Company Identification

Chemical Name: **Aminoguanidine Bicarbonate**

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| Catalog Number | A0307 |
| Synonym | Not available. |
| Chemical Formula | $NH_2NHC(:NH)NH_2 \cdot H_2CO_3$ |
| CAS Number | 2582-30-1 |

Supplier: TCI America
9211 N. Harborgate St.
Portland OR
1-800-423-8616

In case of Emergency Call: **Chemtrec®**
**(800) 424-9300 (U.S.)**
**(703) 527-3887 (International)**

## Section II. Composition and Information on Ingredients

| Chemical Name | CAS Number | Percent (%) | TLV/PEL | Toxicology Data |
|---|---|---|---|---|
| Aminoguanidine Bicarbonate | 2582-30-1 | Min. 99.0 (T) | Not available. | Rat $LD_{50}$ (intraperitoneal) 1160mg/kg |

## Section III. Hazards Identification

**Acute Health Effects**

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

**Chronic Health Effects**

**CARCINOGENIC EFFECTS** : Not available.
**MUTAGENIC EFFECTS** : Not available.
**TERATOGENIC EFFECTS** : Not available.
**DEVELOPMENTAL TOXICITY**: Not available.
There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

## Section IV. First Aid Measures

**Eye Contact**

Check for and remove any contact lenses. IMMEDIATELY flush eyes with runing water for at least 15 minutes. keeping eyelids open. COLD water may be used. DO NOT use an eye oitment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper eyelids. Seek medical attention. Treat symptomatically and supportively.

**Skin Contact**

After contact with skin, wash immediately with plenty of water. Gently and thorough wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.

**Inhalation**

If the victim is not breathing, perform artificial respiration. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention. Treat symptomatically and supportively.

**Ingestion**

INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

## Section V. Fire and Explosion Data

| | | | |
|---|---|---|---|
| Flammability | May be combustible at high temperature. | Auto-Ignition | Not available. |
| Flash Points | Not available. | Flammable Limits | Not available. |

**Combustion Products**

These products are toxic carbon oxides (CO, $CO_2$), nitrogen oxides (NO, $NO_2$).

**Fire Hazards**

No specific information is available regarding the flammability of this compound in the presence of various materials.

**Explosion Hazards**

Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
No additional information is available regarding the risks of explosion.

**Fire Fighting Media and Instructions**

SMALL FIRE: Use DRY chemicals, $CO_2$, water spray or foam.
LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

**Continued on Next Page** **Emergency phone number (800) 424-9300**

## Section VI. Accidental Release Measures

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| Spill Cleanup Instructions | In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Use a shovel to put the material into a convenient waste disposal container. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. Consult federal, state, and/or local authorities for assistance on disposal. |

## Section VII. Handling and Storage

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| Handling and Storage Information | Keep away from heat and sources of ignition. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT breathe dust.<br>Always store away from incompatible compounds such as oxidizing agents. |

## Section VIII. Exposure Controls/Personal Protection

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| Engineering Controls | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Personal Protection | Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.  |
| Exposure Limits | Not available. |

## Section IX. Physical and Chemical Properties

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| Physical state @ 20°C | White powder-crystalline powder. | Solubility | Not available. |
| Specific Gravity | Not available. | | |
| Molecular Weight | 136.11 | Partition Coefficient | Not available. |
| Boiling Point | Not available. | Vapor Pressure | Not available. |
| Melting Point | 170 to 172°C (decomp.) (338 to 341.6°F) | Vapor Density | Not available. |
| Refractive Index | Not available. | Volatility | Not available. |
| Critical Temperature | Not available. | Odor | Not available. |
| Viscosity | Not available. | Taste | Not available. |

## Section X. Stability and Reactivity Data

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| Stability | This material is stable if stored under proper conditions. (See Section VII for instructions) |
| Conditions of Instability | Avoid excessive heat and light. |
| Incompatibilities | Reactive with strong oxidizing agents. |

## Section XI. Toxicological Information

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| RTECS Number | FG1772000 |
| Routes of Exposure | Eye contact. Ingestion. Inhalation. |
| Toxicity Data | Rat $LD_{50}$ (intraperitoneal) 1160mg/kg |
| Chronic Toxic Effects | **CARCINOGENIC EFFECTS** : Not available.<br>**MUTAGENIC EFFECTS** : Not available.<br>**TERATOGENIC EFFECTS** : Not available.<br>**DEVELOPMENTAL TOXICITY**: Not available.<br>There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions. |
| Acute Toxic Effects | No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound. |

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## Section XII. Ecological Information

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| Ecotoxicity | Not available. |
| Environmental Fate | Not available. |

## Section XIII. Disposal Considerations

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| Waste Disposal | Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of the substance. |

## Section XIV. Transport Information

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| DOT Classification | Not a DOT controlled material (United States). |
| PIN Number | Not applicable. |
| Proper Shipping Name | Not applicable. |
| Packing Group (PG) | Not applicable. |
| DOT Pictograms |  |

## Section XV. Other Regulatory Information and Pictograms

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| TSCA Chemical Inventory (EPA) | This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list. |
| WHMIS Classification (Canada) | Not available. |
| EINECS Number (EEC) | 219-956-7 |
| EEC Risk Statements | Not available. |
| Japanese Regulatory Data | Not available. |

## Section XVI. Other Information

**Version 1.0**
**Validated on 4/23/1999.**
**Printed 1/10/2005.**

**Notice to Reader**

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.