Aminoguanidine Bicarbonate
Safety Data Sheet

1. Product and Company

Product name: Aminoguanidine Bicarbonate
Synonym: Aminoguanidine Hydrogen Carbonate
CAS-No.: 2582-30-1
Company: Hummel Croton Inc.
10 Harmich Rd.
South Plainfield, NJ 07080
Telephone: 908-754-1800
Fax: 908-754-1815

Emergency telephone number
Emergency Phone #: ChemTel US: 1-800-255-3924
ChemTel International: +1 (813) 248-0585

HMIS Rating

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
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<td>0</td>
<td>0</td>
<td>E</td>
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</tbody>
</table>

2. Hazards

GHS Classification Skin sensitization (Category 1), H317

GHS Label elements

Pictogram(s)

Signal word WARNING

Hazard statement(s)
H317 May cause allergic skin reaction.

Precautionary statement(s)
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P302 If on skin: Wash with plenty of soap and water.
P333 If rash occurs: Get medical attention.
P501 Dispose of contents to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None.

3. Composition/Ingredients

Substance
Formula: \( \text{HN} = \text{C(NH}_{2}\text{)}\text{NH-NH}_{2}\text{H}_{2}\text{CO}_{3} \)
Molecular weight: 136.09 g/mol
CAS-No.: 2582-30-1

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS</th>
<th>%</th>
<th>OSHA</th>
<th>ACGIH</th>
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<tbody>
<tr>
<td>Aminoguanidine Bicarbonate</td>
<td>2582-30-1</td>
<td>100%</td>
<td>Not Established</td>
<td>Not Established</td>
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</tbody>
</table>

4. First Aid

**First Aid For Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**First Aid For Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**First Aid For Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**First Aid For Ingestion:** If swallowed, call a physician immediately.

5. Fire Data

Flammability: Non-Flammable
Flash Point: Not Applicable
Auto Ignition: 473°F (245°C)
Flammable Limits: Not Applicable
Extinguishing Media: Water, carbon dioxide or foam.
Fire Fighting Procedure: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic fumes.
Fire/Explosion Hazards: Avoid dusting.

6. Accidental Release

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

7. Handling And Storage
Storage Temperatures: Product must be stored below 30°C to reduce the risk of decomposition and discoloration.
Shelf Life: Unlimited in tightly sealed container
Special Sensitivity: Sensitive to heat and light. Will discolor.
Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

8. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.
Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.
Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

9. Physical And Chemical Properties

Physical Form: Fine crystals
Color: White to Light Yellow to Pink
Odor: Odorless
Molecular Weight: 136.09
Boiling Point: N/A
Melting/Freezing Point: ~170°C
Solubility In Water: Insoluble
Specific Gravity: Not established

10. Stability And Reactivity

Hazardous Polymerization: Will not occur.
Incompatibilities: Oxidizing substances, acids, hydroxides.
Instable Conditions: Excessive temperatures (see incompatibilities).
Decomposition Temperature: ~170°C
Decomposition Products: Oxides of Carbon and Nitrogen

11. Toxicological Information

RTECS Number: Not Applicable
Routes Of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.
Toxicity Data: LD50: Oral-Rat > 5,000 mg/kg
Chronic Toxic Effects: This product has not been fully tested.
Acute Toxic Effects: Harmful if swallowed, inhaled, or absorbed through skin. Material can be destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin.
Inhalation could be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

12. Ecological Information

Ecotoxicity: Not available at this time.

13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

14. Transportation Information

Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Aminoguanidine Bicarbonate)
UN Number: 3077
Class: 9
P.G.: III
Label Code: 9

15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List
California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances which the state of California has found to cause cancer, birth defects, or other reproductive effects.
SARA 313 Title III:
   Section 320 Extremely Hazardous Substances: None
   Section 311/312 Hazardous Categories: None
   Section 313 Toxic Chemicals: None

16. Other Information

Prepared By: Michael Richard
Date: March 20, 2018
Reason For Issue: Emergency Contact Update

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