SAFETY DATA SHEET

Revision Date ***19-Mar-2012***

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name GUANIDINE HYDROCHLORIDE

Recommended Use For research use only
Registration Number No information available

1.1 Product Identifier

Catalog Number: 194826

Supplier: MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency Telephone Number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

1.2 Relevant identified uses of the substance or mixture and uses advised against

2. HAZARDS IDENTIFICATION

GHS - Classification

Aspiration Toxicity	Not classified
Acute Oral Toxicity	Not classified
Acute Dermal Toxicity	Category 4
Acute Inhalation Toxicity - Gas	Not classified
Acute Inhalation Toxicity - Vapors	Not classified
Acute Inhalation Toxicity - Dusts and Mists	Not classified
Skin Corrosion/Irritation	Not classified
Serious Eye Damage/Eye Irritation	Not classified
Respiratory Sensitization	Not classified
Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Acute Aquatic Toxicity	Not classified for acute
Chronic Aquatic Toxicity	Not classified for chronic
Ozone	Not applicable

GHS Label elements, including precautionary statements

Risk Code
R22 - Harmful if swallowed.

Risk Combination Phrases

R36/38 - Irritating to eyes and skin.

Signal Word Warning

Precautionary Statements
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P322 - Specific measures (see .? on this label)
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/container to an approved waste disposal plant

NFPA rating:

NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0
NFPA Special Note:	-

Precautionary Statements

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms:	Not Available
Formula:	CH5N3•ClH
Molecular weight:	95.53

For the full text of the R phrases and H statements mentioned in this section, see Section 2

4. FIRST AID MEASURES

4.1 Description of first-aid measures

General Advice	Immediate medical attention is not required. Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediate medical attention is not required Rinse thoroughly with plenty of water, also under the eyelids.
Skin Contact	If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with plenty of water.
Inhalation	Immediate medical attention is not required Move to fresh air.

Rinse mouth	Immediate medical attention is not required. Drink plenty of water. If symptoms persist, call a physician.
Protection of First-aiders	Use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Main Symptoms	No information available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media
Carbon dioxide (CO_2). Water. Foam.

Standard procedure for chemical fires

Extinguishing media which must not be used for safety reasons
No information available

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for firefighters

No information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

See Section 12 for additional information.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.

6.4 Reference to other sections

See Section 12 for additional information

7. HANDLING AND STORAGE

Storage
ROOM TEMPERATURE

7.1 Precautions for safe handling

Ensure adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place
Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

7.3 Specific end uses

Exposure Scenario
No information available

Other Guidelines
No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Derived No Effect Level (DNEL)	No information available
Predicted No Effect Concentration (PNEC)	No information available

8.2 Exposure controls

Engineering Measures	Ensure adequate ventilation, especially in confined areas..
Personal Protective Equipment	
Eye Protection	Tightly fitting safety goggles
Skin and Body Protection	Long sleeved clothing
Hand Protection	Protective gloves
Respiratory Protection	Effective dust mask..
Environmental Exposure Controls	Do not allow material to contaminate ground water system..
Hygiene Measures	General industrial hygiene practice..

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	
Physical State	Solid.
Physical Property Data	
pH Value	5.3
Flash Point	No information available
Autoignition Temperature	No data available
Melting/Freezing Point	
Boiling Point (°C)	No information available.
Vapor Pressure	No data available
Vapor Density	No information available
Water Solubility	No data available
Evaporation Rate	No data available.
Flammability (solid, gas)	No data available
Flammability Limits in Air	
upper flammability limit	No data available

lower flammability limit	No data available
Density	No data available
Specific Gravity	No data available.
Decomposition Temperature	No data available
Viscosity, Kinematic	No data available.
Viscosity, Dynamic	No data available.
Explosive Properties	No information available.
Oxidizing Properties	No information available
VOC Content (%)	No information available

9.2 Other Safety Information

Other Safety Information

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3
Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

None in particular

10.5 Incompatible Materials

None in particular

10.6 Hazardous Decomposition Products

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	Product does not present an acute toxicity hazard based on known or supplied information
Inhalation	No information available.
Eye Irritation	Irritating to eyes. Risk of serious damage to eyes. May cause eye irritation with susceptible persons.
Skin Irritation	Irritating to skin.
Ingestion	Harmful if swallowed.

Acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

Mutagenic Effects	Contains no ingredient listed as a mutagen.
Carcinogenic Effects	None known.

Reproductive Toxicity	None known
Developmental Toxicity	None known.
Aspiration hazard	None known

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

12.2 Persistence and degradability

No data is available on the product itself

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors

13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging	Clean container with water Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

IMDG/IMO	Not regulated
ICAO	Not regulated
ICAO/IATA	Not regulated
DOT	Not regulated
TDG	Not regulated

14. TRANSPORT INFORMATION

MEX Not regulated

15. REGULATORY INFORMATION

International Inventories

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances / EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippine Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Subtances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

16. OTHER INFORMATION

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Material Safety Data Sheet

Key literarure references and sources for data
www.ChemADVISOR.com/