

Catalog Number: 101905 Revision date: 26-Apr-2006

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 101905

Product name: GUANIDINE HYDROCHLORIDE PRACTICAL GRADE

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)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components CAS Number Weight % ACGIH Exposure Limits: OSHA Exposure Limits:

GUANIDINE HYDROCHLORIDE 50-01-1 90 - 100% None None

### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful by inhalation, in contact with skin and if swallowed.

Category of Danger: Harmful, Lachrymator

Principle routes of exposure: Skin Inhalation: Harmful by inhalation. Ingestion: Harmful if swallowed.

**Skin contact:** Harmful in contact with skin. **Eye contact:** Risk of serious damage to eyes

Vapors extremely irritating to eyes an respiratory tract

ANSI Classification Irritant - eye, severe

Statements of hazard HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR

INHALED.

CAUSES EYE IRRITATION.

**Statement of Spill or Leak - ANSI Label** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

**Statement of First Aid** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician. In case of contact, flush eyes with running water for at least 15 minutes. Consult a physician for irritation or any other symptom.

**Precautions - ANSI Label** Do not taste or swallow. Wash thoroughly after handling. Avoid breathing vapors. Avoid contact with skin, eyes and clothing

Catalog Number: 101905 Product name: GUANIDINE HYDROCHLORIDE Page 1 of 6
PRACTICAL GRADE

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### 4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation:** Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician Drink 1 or 2 glasses of water. Induce vomiting, but only if victim is fully conscious. Obtain medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam

Specific hazards: Burning produces irritant fumes.

**Unusual hazards:** None known

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Specific methods: Water mist may be used to cool closed containers.

Not determined Flash point: **Autoignition temperature:** Not determined

NFPA rating:

NFPA Health: 1 NFPA Flammability: 1 NFPA Reactivity: 0

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. **Environmental precautions:** Prevent product from entering drains.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal.

### 7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE **DESICCATE** 

Use only in area provided with appropriate exhaust Handling:

ventilation.

Safe handling advice: Wear personal protective equipment. Remove and wash

contaminated clothing before reuse.

Keep containers tightly closed in a cool, well-ventilated Technical measures/storage conditions:

place. Keep container tightly closed in a dry and well-

ventilated place.

Incompatible products: Oxidising and spontaneously flammable products

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed. Catalog Number: 101905 **Product name: GUANIDINE HYDROCHLORIDE** PRACTICAL GRADE

Page 2 of 6

MP Biomedicals, LLC www.mpbio.com

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against

this potential effect.

**Eye protection:** Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:PowderFormula:CH5N3•CIHMolecular weight:95.5Melting point/range:184 °C

**Boiling point/range:**No Data available at this time.

Density:1.345 g/cm3 at 20 °CVapor pressure:No data availableEvaporation rate:No data availableVapor density:No data available

Solubility (in water): Soluble

Flash point: Not determined Autoignition temperature: Not determined

## 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

**Polymerization:**None under normal processing.

Hazardous decomposition products: Chloride/Hydrochloric acid, Nitrogen oxides

(NOx)/ammonia/CN-Strong oxidising agents

**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

# 11. TOXICOLOGICAL INFORMATION

Product Information Acute toxicity

Materials to avoid:

ComponentsRTECS Number:Selected LD50s and LC50sGUANIDINE HYDROCHLORIDEMF4300000Oral LD50 Rat : 475 mg/kgOral LD50 Mouse : 571 mg/kg

**Chronic toxicity:** Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

**Local effects:** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomitina

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised

skin), nausea, vomiting, headache.

Primary irritation:No data is available on the product itself.Carcinogenic effects:No data is available on the product itself.Mutagenic effects:No data is available on the product itself.Reproductive toxicity:No data is available on the product itself.

### 12. ECOLOGICAL INFORMATION

Mobility:

Bioaccumulation:

Catalog Number: 101905

Product name: GUANIDINE HYDROCHLORIDE PRACTICAL GRADE

Page 3 of 6

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**Ecotoxicity effects:** No data available

**Aquatic toxicity:** May cause long-term adverse effects in the aquatic

environment.

Components U.S. DOT - Appendix B -

Marine Pollutan

**GUANIDINE HYDROCHLORIDE** Not Listed U.S. DOT - Appendix B -Severe Marine Pollutants **United Kingdom - The Red** 

Not Listed

Components Germany VCI (WGK) **World Health Organization** (WHO) - Drinking Water

**Ecotoxicity - Fish Species** Data

Not Listed

Not Listed

Not Listed

Components **Ecotoxicity - Freshwater** 

Algae Data

Not Listed

**Ecotoxicity - Microtox Data Ecotoxicity - Water Flea** 

Data

**GUANIDINE HYDROCHLORIDE** Not Listed

Not Listed

Not Listed

Components **EPA - ATSDR Priority List**  **EPA - HPV Challenge Program Chemical List**  **California - Priority Toxic Pollutants** 

Not Listed

Not Listed

**GUANIDINE HYDROCHLORIDE** 

**GUANIDINE HYDROCHLORIDE** 

Components

**GUANIDINE HYDROCHLORIDE** 

**California - Priority Toxic Pollutants** 

**California - Priority Toxic Pollutants** 

Not Listed Not Listed

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate

Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous.

Contaminated packaging:

Do not re-use empty containers

### 14. TRANSPORT INFORMATION

UN/Id No: Not regulated

DOT:

Proper shipping name: Not Regulated

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities

**GUANIDINE HYDROCHLORIDE** Not Listed

TDG (Canada):

WHMIS hazard class: D1b toxic materials D2b toxic materials



IMDG/IMO

Product name: GUANIDINE HYDROCHLORIDE Catalog Number: 101905 Page 4 of 6 PRACTICAL GRADE

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**IMDG - Hazard Classifications** 

Not Applicable

Components U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine

**Pollutants** 

GUANIDINE HYDROCHLORIDE Not Listed Not Listed

**IMO-labels:** 

### 15. REGULATORY INFORMATION

#### International Inventories

Components

**GUANIDINE HYDROCHLORIDE** 

Inventory - United States TSCA - Sect. 8(b)

Canada DSL Inventory List 
Australia (AICS):

Present
Inventory - China:

Present
Present

**EU EINECS List -** 200-002-3; CH5N3.CIH

Inventory - Japan:1-215Korean KECL:KE-18111Philippines PICCS:Present

**U.S. regulations:** 

Components

California Proposition 65 Massachusetts Right to Know List:

New Jersey Right to Pennsylvania Right to Know List:

List:

GUANIDINE Not Listed Not Listed Not Listed Not Listed

**HYDROCHLORIDE** 

Components Florida substance List: Rhode Island Right to Illinois - Toxic Air Connecticut - Hazardous Air Know List: Contaminants Pollutants

GUANIDINE Not Listed Not Listed Not Listed Not Listed

HYDROCHLORIDE

Components SARA 313 Emission CERCLA/SARA - Section NTP: IARC:

reporting/Toxic Release 302 Extremely Haz of Chemicals

GUANIDINE Not Listed None None

HYDROCHLORIDE

**SARA 313 Notification:** The above is your notification as to the SARA 313 listing for this product(s) pursuant

to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of

1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community

Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in

Washington, DC or Alaska).

**State Notification:** The above information is your notice as to the Right-to-Know listings of the stated

product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive

hazards; and the compounds environmental impact if accidentally released.

Catalog Number: 101905 Product name: GUANIDINE HYDROCHLORIDE Page 5 of 6

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## **16. OTHER INFORMATION**

Prepared by: Health & Safety

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**End of Safety Data Sheet** 

Catalog Number: 101905 Product name: GUANIDINE HYDROCHLORIDE Page 6 of 6

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