



SAFETY DATA SHEET

Preparation Date: 1/14/2014	Revision Date: 1/14/2014	Revision Number: G1
	1. IDENTIFICATION	
Product identifier		
Product code:	G3327	
Product Name:	GUANIDINOACETIC ACID	
Other means of identification		
Synonyms:	N-Amidinoglycine	
	Glycocyamine	
CAS #:	352-97-6	
RTECS #	MB7600550	
Cl#:	Not available	
Recommended use of the che	mical and restrictions on use	
Recommended use:	No information available.	
Uses advised against	No information available	
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.	
	14422 South San Pedro St.	
	Gardena, CA 90248	
	(310) 516-8000	
Order Online At:	https://www.spectrumchemical.com	
Emergency telephone number	Chemtrec 1-800-424-9300	
Contact Person:	Martin LaBenz (West Coast)	
Contact Person:	Regina Wachenheim (East Coast)	
	2. HAZARDS IDENTIFICATION	

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Guanidinoacetic Acid 352-97-6	352-97-6	100	*

4. FIRST AID MEASURES

First aid measures General Advice:	Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
Eye Contact:	Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Most important symptoms and effec	
Symptoms	May cause eye/skin irritation.

Indication of any immediate medical attention and special treatment neededNotes to Physician:Treat symptomatically

Protection of first-aiders

Extinguishing Media

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.
Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous Combustion Products:	Carbon monoxide; Carbon dioxide; NItrogen oxides
Specific hazards:	May be combustible at high temperatures. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Special Protective Actions for Firefighters

Specific Methods:

No information available.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Personal Precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.	
Environmental precautions	No information available.	
Methods and material for containment and cleaning up		
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.	
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal	

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

U.S Occupational Exposure Limits: Not determined

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
Guanidinoacetic Acid - 352-97-6				

Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
	None	None	None	None
Guanidinoacetic Acid - 352-97-6				

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
Guanidinoacetic Acid	None	None
352-97-6		

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. 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.

Individual protection measures, such as personal protective equipment Personal Protective Equipment		
Eye protection:	Safety glasses. Safety glasses with side-shields.	
Skin and body protection:	Long sleeved clothing. Chemical resistant apron. Gloves.	
Respiratory protection:	Effective dust mask. Wear respirator with dust filter	
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.	

9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state: Solid.

Odor: Odorless.

Molecular/Formula weight: 117.1

Flash Point Tested according to: Not applicable

Autoignition Temperature (°C/°F): No information available

Boiling point/range(°C/°F): No information available

Density (g/cm3): No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available **Appearance:** Powder. Crystalline powder.

Taste No information available

Flash point (°C): Not applicable

Lower Explosion Limit (%): No information available

pH: No information available

Decomposition temperature(°C/°F): 280-283 °C/536-543 °F

Bulk density: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: No information available Color: White. Off-white.

Formula: C3-H7-N3-O2

Flashpoint (°C/°F): Not applicable

Upper Explosion Limit (%): No information available

Melting point/range(°C/°F): No information available

Specific gravity: No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Reactivity	
Reactive with	oxidizing agents

Chemical stability Stability:	Stable at normal conditions
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Incompatible Materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).
Other Information	
Corrosivity:	No information available
Special Remarks on Corrosivity:	No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product code: G3327

Principal Routes of Exposure: Ingestion. Inhalation.

Acute Toxicity

Component Information

Guanidinoacetic Acid - 352-97-6

LD50/oral/rat = No information available LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat = VALUE- Acute Tox Oral = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	May cause skin irritation.	
Eye Contact:	Contact with eyes may cause irritation.	
Inhalation Ingestion	May cause irritation of respiratory tract. No information available. Health injuries are not known or expected under normal use.	
Aspiration hazard	No information available	
Delayed and immediate effects as	s well as chronic effects from short and long-term exposure	
Chronic Toxicity	No information available	
-		

Mutagenic Effects: No information available

Carcinogenic effects:

Not considered carcinogenic.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Guanidinoacetic Acid	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity	No data is available
Reproductive Effects: Developmental Effects: Teratogenic Effects:	No information available No information available No information available
Specific Target Organ Toxicity	

STOT - single exposure	No information available
STOT - repeated exposure	No information available
Target Organs:	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	No data available.		
Persistence and degradability:	No information available		
Bioaccumulative potential:	No information available		
Mobility:	No information available		

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Guanidinoacetic Acid	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No:	Not regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	Not applicable
Packing Group:	None
Marine Pollutant	No data available
ERG No:	No information available
DOT RQ (lbs):	No information available

TDG (Canada)

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group: **Description:**

ADR

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
Classification Code:	No information available
Description:	No information available
CEFIC Tremcard No:	No information available

IMO / IMDG

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Description:	No information available
IMDG Page:	No information available
Marine Pollutant	No information available
MFAG:	No information available
Maximum Quantity:	No information available

RID

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group: **Classification Code: Description:**

ICAO

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group:

Not Regulated No information available No information available No information available No information available No information available

Not Regulated

No information available No information available

Not Regulated No information available No information available No information available No information available

14. TRANSPORT INFORMATION No information available

Description:

ΙΑΤΑ

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Description:	No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Guanidinoacetic Acid	Not Listed	Present	Not present	Present (9)- 329	Not present	Not present	Present 206-529-5

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Guanidinoacetic Acid	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

	Substances and their		Hazardous	Chemical Category	Section 313 - Reporting de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQS		
Guanidinoacetic Acid	None	None	None	None	None

U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Guanidinoacetic Acid	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

Non-controlled

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Guanidinoacetic Acid	Not Listed	Not Listed

Components CEPA Schedule I - Toxic Substances CEPA		CEPA - 2010 Greenhouse Gases Subject to Manditory
		Reporting
Guanidinoacetic Acid	Not listed	Not listed

EU Classification

R-phrase(s) not determined

not determined none

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Guanidinoacetic Acid		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: Not dangerous

16. OTHER INFORMATION

16. OTHER INFORMATION		
NFPA	HMIS	Personal Protective Equipment
	Health Hazard1Fire Hazard1Reactivity0	
		See Section 8.
Preparation Date:	1/14/2014	

1/14/2014 Sonia Owen

Preparation Date: Revision Date: Prepared by:

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Material Safety Data Sheet