

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Hazard Statement(s):

Warning! May intensify fire; oxidizer Harmful if swallowed Causes skin irritation Causes serious eye irritation

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2]

Eye Damage/Irritation [Category 2A] Oxidizing Solids [Category 3]

Guanidine Nitrate

For laboratory research purposes.

Not for drug or household use.

G0164

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Disposal]

Hazards not otherwise classified: [HNOC]

TCI AMERICA SAFETY DATA SHEET

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

Keep away from heat. Keep and store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

None.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Guanidine Nitrate
Percent:	>98.0%(W)
CAS RN:	506-93-4
Molecular Weight:	122.08
Chemical Formula:	CH₅N₃⁺HNO₃

4. FIRST-AID MEASURES

Description of first aid measures	Demonstration to frach size and learn at each in a position comfortable for brackling. Out we that
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. It skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Symptoms/effects:	
Acute:	Redness.
Delayed:	No data available
Indication of any immediate medic Not available. Notes to physician:	al attention:
ndication of any immediate medic Not available. Notes to physician: No data available	
ndication of any immediate medic Not available. Notes to physician: No data available 5. FIRE-FIGHTING MEASURES	
ndication of any immediate medic lot available. lotes to physician: lo data available 5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Specific hazards arising from the	Dry chemical, foam, water spray, carbon dioxide. Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may
ndication of any immediate medic Not available. Notes to physician: No data available 5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Specific hazards arising from the chemical:	Dry chemical, foam, water spray, carbon dioxide. Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
ndication of any immediate medic Notes to physician: No data available 5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Specific hazards arising from the chemical: Hazardous combustion products:	Dry chemical, foam, water spray, carbon dioxide. Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. These products include: Carbon oxides Nitrogen oxides
Andication of any immediate medic Notes to physician: No data available 5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Specific hazards arising from the chemical: Hazardous combustion products:	Dry chemical, foam, water spray, carbon dioxide. Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Indication of any immediate medic Not available. Notes to physician: No data available 5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards: Advice for firefighters:	Dry chemical, foam, water spray, carbon dioxide. Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. These products include: Carbon oxides Nitrogen oxides

Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up: Prevention of secondary hazards:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains. Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment. Ensure all leaks are completely removed to prevent subsequent ignition.
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Avoid shock and friction. Wash hands and face before breaks and immediately after handling the product.

Use a loca	l exhaust if dust	or aerosol will b	e generated.
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Avoid contact with skin, eyes and clothing. Don't leave used equipment or rag. This product may ignite if it is left stuck on combustibles such as paper, rags, etc.

Conditions for safe storage, including any incompatibilities

Storage conditions:		Kee	ep container tightly closed. Store in a cool and dark place.	

Be sure not to give the container unexpected impacts, such as falling down or falling off. Store away from combustibles. Comply with laws.

Packaging material:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
Dust respirator. Follow local and national regulations.
Protective gloves.
Safety glasses. A face-shield, if the situation requires.
Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Almost white No data available No data available No data available		
Melting point/freezing point:	214°C (417°F)	pH:	No data available
Boiling point/range:	No data available	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	No data available	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point:	No data available	Autoignition temperature:	No data available
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
		Lower:	No data available
		Upper:	No data available
Solubility(ies): [Water] [Other solvents]	No data available		
Soluble: Insoluble:	Alcohols Ether, Benzene, Acetone		

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	May explosively decompose on heating, shock, friction, etc. May cause fire or explosion on contact with
	reducing agents or mixing with combustibles.
Conditions to avoid:	Heat, Shock, Friction, Light
Incompatible materials:	Oxidizing agents, Reducing agents, Strong acids, Combustibles, Organic substances
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

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11. TOXICOLOGICAL INFORMATION

RTECS Number: MF4350000

Acute Toxicity: orl-mus LD50:1028 mg/kg		orl-rat LD50:730 mg/kg		
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity:				
Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability:	No data available			
Bioaccumulative potential (BCF): Mobility in soil	No data available			
Log Pow:	No data available			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³ /mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	Recycle to process	s if possible. It is the generator's resp gulations. Consult an expert of dispos	onsibility to	comply with Federal, State and
		ction is intended to provide assistance		
		ordance with this section ensure regu		
	guidelines for Iden	tification and Listing of Hazardous W	aste are liste	ed in 40 CFR Parts 261. The
		t be allowed to enter the environment		ter ways, or the soil.
Disposal of container:		sed product. Do not re-use empty cor		
Other considerations:	Observe all federa	I, state and local regulations when di	sposing of th	ne substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN1467	Proper Shipping Name: Guanidine nitrate	Class or Division: 5.1 Oxidizer	Packing Group:		
IATA_ UN number: UN1467	Proper Shipping Name: Guanidine nitrate	Class or Division: 5.1 Oxidizer	Packing Group: III		
IMDG UN UN1467 numb er:	Proper Shipping Name: Guanidine nitrate	Class or Division: 5.1 Oxidizer	Packing Group: III		
EmS number:	F-A, S-Q				
15. REGULATO	15. REGULATORY INFORMATION				
Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.					
US Federal Regula CERCLA Hazardou SARA 313:	<u>ations</u> us substance and Reportable Quantity: Not Listed				

SARA 302:		Not Listed	
State Regulations	<u>S</u>		
State Right-to-Kn	ow		
Massachuse	tts	Not Listed	
New Jersey		Listed	
Pennsylvania	a	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	<u>1</u>		
NFPA Rating:			HMIS Classification:
Health:	2		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:
International Inve	entories		
Canada: DSL		On DSL	
EC-No:		208-060-1	

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI 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 affiliates or 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 SDS 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 SDS 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, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

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