

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):

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Disposal]

1-Methyl-3-nitroguanidine (wetted with ca. 25% Water) (unit weight on dry weight basis) M0749

For laboratory research purposes. Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Emergency telephone number:

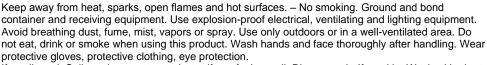
Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 4] Acute Toxicity - Inhalation [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Flammable Solids [Category 2]

Warning!

None.

Flammable solid Harmful if swallowed, in contact with skin or if inhaled Causes skin irritation Causes serious eye irritation



If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. Call a poison center or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. 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 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Mixture
Components:	1-Methyl-3-nitroguanidine (wetted with ca. 25% Water) (unit weight on dry weight basis)
Percent:	>98.0%(T)
CAS RN:	4245-76-5
Molecular Weight:	118.10
Chemical Formula:	C2H6N4O2
Hazardous ingredient(s):	1-Methyl-3-nitroguenidine (75%) 4245-76-5
	Water (25%) 7732-18-5
4. FIRST-AID MEASURES	
Description of first sid measures	
Description of first aid measures Inhalation:	Remove vistim to freeh six and lease at rest is a position comfortable for breathing. Call a POISON
Innalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If 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 medical atte	ention:
Not available.	
Notes to physician:	
No data available	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from the	Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may
chemical:	decompose upon combustion or in high temperatures to generate poisonous fume.
Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides
Other specific hazards:	Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.
	Combat fire from a sheltered position.
6. ACCIDENTAL RELEASE MEASU	RES
Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to
equipment and emergency procedures:	non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for containment	
and cleaning up:	material should be promptly disposed of, in accordance with appropriate laws and regulations.
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use
	spark-proof tools and explosion-proof equipment.
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent
	dispersion of dust. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures
	to prevent the build up of electrostatic charge. Wash hands and face thoroughly after handling.
	Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including a	
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
ciorage conditions.	Be sure not to give the container unexpected impacts, such as falling down or falling off.
	Keep wetted with water for desensitized.
	Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ppropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a clo system or local exhaust. Also install safety shower and eye bath.					
Personal protective equipment Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Protective gloves. Safety glasses. A face-sh	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 CHEMICA	L 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: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	160°C (320°F) No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available		
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available		
Solubility(ies): [Water] [Other solvents]	No data available No data available				

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. May explosively decompose on heating, shock, friction, etc. Heat, Spark, Open flame, Static discharge, Shock, Friction Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx) 11. TOXICOLOGICAL INFORMATION

RTECS Number: MF4125000				
Acute Toxicity: orl-rat LD:>1 g/kg				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: cyt-ham-fbr 6 g/L/48H		cyt-ham-Ing 330	00 mg/L	
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: Algae:	No data available No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available 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:	Local rules and re with a combustible and scrubber syste This section is inte accordance with the Identification and I be allowed to enter	gulations. Consult an exper e solvent and little by little b em. If a large amount of the ended to provide assistance his section ensure regulator Listing of Hazardous Waste er the environment, drains, v	t of disposal. You may burn in a chemical incir substance is burned a but does not replace y compliance accordin are listed in 40 CFR F water ways, or the soil.	comply with Federal, State and be able to dissolve or mix material herator equipped with an afterburner at a time, an explosion may occur. these laws, nor does compliance in g to the law. US EPA guidelines for Parts 261. The product should not
Disposal of container:	Dispose of as upu	sed product. Do not re-use	ampty containers	

Disposal of container: Other considerations: Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance. 14. TRANSPORT INFORMATION

DOT (US) UN number: UN1325	Proper Shipping Name: Flammable solids, organic, n.o.s	Class or Division: 4.1 Flammable solid	Packing Group:
IATA_ UN number: UN1325	Proper Shipping Name: Flammable solid, organic, n.o.s	Class or Division: 4.1 Flammable solid	Packing Group: III
IMDG UN UN1325 numb er:	Proper Shipping Name: Flammable solid, organic, n.o.s	Class or Division: 4.1 Flammable solid	Packing Group: III
EmS number:	F-A, S-G		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardo	ous substan	ce and Reportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
Ctoto Dogulation	-		
State Regulations			
State Right-to-Kn			
Massachuse	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	a	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	n		
NFPA Rating:			HMIS Classification:
Health:	2		Health:
Flammability:	0		Flammability:
Instability:	3		Physical:
International Inventories			

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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