

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

N-Methyl-D-glucamine Hydrochloride [for Buffer] M0713

TCI AMERICA

SAFETY DATA SHEET

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

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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Not classifiable
Signal word:	None
Hazard Statement(s):	None
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s):	None
Hazards not otherwise classified: [HNOC]	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance N-Methyl-D-glucamine Hydrochloride [for Buffer]
Percent:	>98.0%(HPLC)(T)
CAS RN:	35564-86-4
Molecular Weight:	231.67
Chemical Formula:	C7H17NO5 · HCI

Fye contact: Continue insing. If eye inflation persists: Get medical advice/attention. Ingestion: Get medical advice/attention. Symptoms/effects: Acute: Acute: No data available Indication of any immediate medical attention: No data available Indication of any immediate medical attention: No data available Not available No data available Symptoms/effects: No data available Not available Disyncit. No data available No data available Symptoms/effects: No data available Not available Sector physician: No data available No data available Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide. Symptoms/effects: Waxardabe Advice for firefighters: Wear self-contained breathing apparatus if possible. & ACCIDENTAL RELEASE MEASURES Use personal protective Personal precautions, protective Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personal should be controlled around the leakage area by roping off, etc. Prevent products: Prevent products: Sweep dusto collect tine on aitright pontance with appropriate laws and regu					
Initialation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. Skin contact: Remove/Take off immedialely all contaminated clothing. Rinse skin with water/shower. If skin irritation 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 yee irritation persists: Get medical advice/attention. Symptoms/effects: Acute: No data available Acute: No data available No data available Notas valitable. No data available No data available Notas valitable No data available No data available S.FIRE-FIGHTING MEASURES Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide. Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide. Stree for firefighters: Wear self-contained breathing apparatus if possible. (chemical: These products include: Carbon oxides Nitrogen oxides Halogenated compounds Advice for firefighters: Wear self-contained breathing apparatus if possible. (chemical: Continue degraphic protective equipment. Keep people away from and upwind of spill/leak. Entry to enving off, etc. Personal proceutions, protective Use personal protective equipment.	4. FIRST-AID MEASURES				
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Eye contact: Continue rinsing: If eye initiation persists: Cert medical advice/attention. Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth. Symptoms/effects: No data available Actue: No data available Indication of any immediate medical attention: No data available Notes to physician: No data available Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide. Specific hazards arising from the chemical: Take care as it may decompose upon combustion or in high temperatures to generate poisonous further specific hazards: WARNING: Highly toxic HCI gas is produced during combustion. Advice for firefighters: Wear self-contained breathing apparatus if possible. Excortional instage during during during during care not to disperse it. Adhered or collected molecular during	Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation			
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION	Packaging material				
Appropriate engineering controls. Follow safe industrial engineering/aboratory practices when handling any chemical install a closed	8. EXPOSURE CONTROLS / PERSC	DNAL PROTECTION			
	Appropriate engineering controls:	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.			
Personal protective equipment Respiratory protection: Dust respirator. Follow local and national regulations.		Dust respirator. Follow local and national regulations			

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Respiratory protection:	Dust respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	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: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	150°C (302°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 REACT Reactivity: Chemical stability: Possibility of hazardous reaction Incompatible materials:	No data available Stable under proper cond			

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

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11. TOXICOLOGICAL INFORMATION

Hazardous decomposition products:

Acute Toxicity: No data available

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

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

No data available

OSHA:

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Crustacea: Algae:	No data available No data available No data available
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available
Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³/mol):	No data available No data available No data available

13. DISPOSAL CONSIDERATIONS		
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.	
Disposal of container:	Dispose of as unused product.	
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.	
14. TRANSPORT INFORMATION		
DOT (US)	Non-hazardous for transportation.	
IATA	Non-hazardous for transportation.	
IMDG	Non-hazardous for transportation.	

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.

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US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

	Not Listed	
	Not Listed	
<u>s</u>		
now		
tts	Not Listed	
	Not Listed	
a	Not Listed	
sition 65:	Not Listed	
<u>n</u>		
		HMIS Classification:
0		Health:
0		Flammability:
0		Physical:
	0	Not Listed S Not Listed S Not Listed Not Listed A Not Listed A Not Listed A Not Listed A Not Listed D

International Inventories

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16. OTHER INFORMATION

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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.