

SAFETY DATA SHEET

Revision Date 06/14/2019



1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

Product code R2340
Product name Wash Buffer 1

Company/Undertaking Identification

Ocean NanoTech, LLC.
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For research use only. Not for human or animal therapeutic or diagnostic use.

2. Hazards identification

GHS - Classification

Signal Word

WARNING



Health Hazard

Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Physical Hazards

Hazard statements

H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H315 - Causes skin irritation

Precautionary statements

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Principle Routes of Exposure/

Potential Health effects

Eyes	Irritating to eyes.
Skin	Irritating to skin.
Inhalation	May be harmful by inhalation. Harmful if
Ingestion	swallowed.

Specific effects

Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none
Target Organ Effects	none

HMIS

Health	2
Flammability	0
Reactivity	0

3. Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Guanidine hydrochloride	50-01-1	200-002-3	<16

We recommend handling all chemicals with caution.

4. First aid measures

Skin contact	Wash off immediately with plenty of water. If symptoms persist, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth. Call a physician or Poison Control Centre immediately.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Special protective equipment for firefighters

Dry chemical. Water spray.
Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions Use personal protective equipment. Ensure adequate ventilation. **Methods for cleaning up** Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. Handling and storage

**Handling
Storage**

Always wear recommended Personal Protective Equipment.
Keep in properly labelled containers. Keep in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Guanidine hydrochloride	none	none	none	none

Engineering measures _____ Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Goggles.

Skin and body protection. Lightweight protective clothing.

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

Environmental exposure controls Prevent product from entering drains.

9. Physical and chemical properties

General Information

Form	liquid		
Appearance	No information available		
Odor	No information available		
Boiling Point/Range	°C no data	°F no data	
Melting point/range	available	available	
Flash point	°C no data	°F no data	
Autoignition temperature	available	available	
	°C no data	°F no data	
	available	available	
	°C no data	°F no data	
	available	available	
Oxidizing properties	No information available.		
Water solubility	no data available		
pH VALUE	6.5		

10. Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	No information available.
Hazardous decomposition products	No information available.
polymerization	Hazardous polymerization does not occur.

11. Toxicological information

Acute toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Guanidine hydrochloride	no data available	> 2000 mg/kg (Rabbit)	no data available

Principle Routes of Exposure/

Potential Health effects	Irritating to eyes.
Eyes	Irritating to skin.
Skin	May be harmful by inhalation.
Inhalation	Harmful if swallowed.
Ingestion	
Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none
Target Organ Effects	none

12. Ecological information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Guanidine hydrochloride 50-01-1					logPow<=-1.7

13. Disposal considerations

Dispose of in accordance with local regulations.

14. Transport information

IATA

Proper shipping name	
Hazard class	
Subsidiary Class	
Packing group	
UN-No	Not classified as dangerous in the meaning of transport regulations none none none none

15. Regulatory information

Component	TSCA
Guanidine hydrochloride 50-01-1 (30-60)	Listed

U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) This product does not contains HAPs.

U.S. State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
Guanidine hydrochloride	-	-	-	-	-
Tween 20	-	-	-	-	-

California Proposition 65

This product does not contain chemicals listed under Proposition 65

WHMIS Hazard Class

D2B Toxic materials



This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. Other information

Reason for Revision not applicable. (M)SDS sections updated.

For research use only. Not for human or animal therapeutic or diagnostic use.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE.

End of Safety Data Sheet