# **SAFETY DATA SHEET**

Revision Date 06/14/2019



### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Identification of the substance/preparation

Product code F0302

Product name PureBind Beads

### Company/Undertaking Identification

Ocean NanoTech, LLC. 7964 Arjons Dr. Suite G San Diego, CA 92126 858-689-8808

info@oceannanotech.com

For Research Use Only. Not for use in diagnostic procedures.

### **SECTION 2: Hazards identification**

### **GHS - Classification**

### Signal Word

None

### **Hazard pictograms**

None

### **Health hazards**

Not classified

### **Physical hazards**

Not classified

### **Environmental hazards**

Not classified

#### **Hazard Statements**

Not Applicable

### **Precautionary Statements**

Prevention

Not Applicable

### Response

Not Applicable

### Storage

Not Applicable

### Disposal

Not Applicable

#### Other hazards

Not Applicable

#### **HMIS**

Health	0
Flammability	0
Reactivity	0

### SECTION 3: Composition/information on Ingredients

Component	CAS-No	EINECS-No	Weight %
SODIUM AZIDE 26628-22-8 ( < 0.1 )	26628-22-8	-	< 0.1

The product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 4: First aid measures				
Skin contact Rinse cautiously with water for several minutes. Immediate medical attention is				
	not required.			

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated

conditions of normal use. If you feel unwell, seek medical advice.

**inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed Not Applicable

Notes to Physician Treat symptomatically.

### **SECTION 5: Firefighting measures**

### **Extinguishing media**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO2). Foam. Dry chemical. **Unsuitable extinguishing media** No information available.

Special hazards arising from the substance or mixture Not known.

Advice for fire-fighters Standard procedure for chemical fires.

#### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

#### **Environmental precautions**

No special environmental precautions required.

#### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### Reference to other sections See

section 8 for more information.

### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Use personal protective equipment as required. .

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### Specific end use(s)

Research Use Only. Not for use in diagnostic procedures.

### **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
SODIUM AZIDE	None	None	None	None

**Engineering measures** 

Ensure adequate ventilation, especially in confined areas

#### **Exposure controls**

#### **Personal Protective Equipment**

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles

**Skin and Body Protection** Wear suitable protective clothing

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

#### **Environmental exposure controls**

No special environmental precautions required.

#### **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

suspension **Appearance** Odor No data available

Melting point / melting range Boiling point / boiling range

Flash point

**Autoignition Temperature Decomposition temperature** 

**Evaporation rate** 

°C Mixture has not been tested °C Mixture has not been tested

°C Mixture has not been tested °C Mixture has not been tested

°C Mixture has not been tested No data available

°F Mixture has not been tested

Flammability (solid, gas) No data available

Upper explosion limit Mixture has not been tested

Lower explosion limit Mixture has not been tested

Vapor Pressure Mixture has not been tested

Relative density Mixture has not been tested

Specific gravity No data available

**Solubility** No data available

Partition coefficient:

n-octanol/water

No data available

**Explosive properties** Mixture has not been tested

Other information No data available

**SECTION 10: Stability and reactivity** 

**Reactivity** Sodium azide may react with lead and copper plumbing to form highly

explosive metal azides.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid**No information available.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

**Hazardous decomposition** 

products

No data available.

### **SECTION 11: Toxicological information**

### Information on toxicological effects

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
SODIUM AZIDE	= 27 mg/kg (Rat)	No data available	No data available

### **Principal Routes of Exposure**

IrritationConclusive but not sufficient for classificationCorrosivityConclusive but not sufficient for classificationSensitizationConclusive but not sufficient for classificationSTOT - Single ExposureConclusive but not sufficient for classificationSTOT - Repeated ExposureConclusive but not sufficient for classification

Carcinogenicity Conclusive but not sufficient for classification

Mutagenicity Conclusive but not sufficient for classification

**Reproductive toxicity** Conclusive but not sufficient for classification

**Aspiration hazard** 

Conclusive but not sufficient for classification

### **SECTION 12: Ecological information**

#### **Toxicity**

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
SODIUM AZIDE	No data available	No data available	No data available	No data available	No data available

### Persistence and degradability No information available. Bioaccumulative

**potential** No information available.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

### **SECTION 13: Disposal considerations**

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

#### **SECTION 14: Transport information**

### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations.

UN number Not Applicable
UN proper shipping name Not Applicable

Transport hazard class(es) Not Applicable

Packing group Not Applicable

Environmental hazards Not Applicable

Special precautions for Not Applicable

user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable.

### **SECTION 15: Regulatory information**

Component	US TSCA
SODIUM AZIDE 26628-22-8 ( < 0.1 )	Listed

### **US Federal Regulations**

#### **SARA 313**

This product is not regulated by SARA.

Chemical Name CAS-No Weight % SARA 313 - Threshold Values SODIUM AZIDE 26628-22-8 < 0.1 1.0

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

### **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **SECTION 16: Other information**

**Reason for revision** SDS sections updated.

Revision number 1.0

Revision date 18-Feb-2019

For Research Use Only. Not for use in diagnostic procedures.

### References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

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**End of Safety Data Sheet** 

# **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 R1247

Product name Lysis Buffer

### Company/Undertaking Identification

Ocean NanoTech, LLC. 7964 Arjons Dr. Suite G San Diego, CA 92126 858-689-8808

info@oceannanotech.com

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** Irritating to eyes. **Eyes** Irritating to skin. Skin May be harmful by Inhalation 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	< 70
Tween 20	9005-64-5	500-018-3	< 30

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.

Treat symptomatically. Notes to physician

#### 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 Soak up with inert absorbent material. cleaning up

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

### 7. Handling and storage

Handling Always wear recommended Personal Protective Equipment.

Storage 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
Tween 20	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

Prevent product from entering drains.

controls

### 9. Physical and chemical properties

### **General Information**

Form liquid Appearance No

information available

**Odor** No

information available

°F no data **Boiling Point/Range** °C no data available Melting point/range available Flash point °C no data °F no data **Autoignition** available available °F no data temperature °C no data available available °C no data °F no data available available

Oxidizing No information available.

**properties** no data available

Water 6.5

solubility pH VALUE

10. Stability and reactivity

Stable under normal

**Stability** 

conditions. Materials to avoid

No information available. Hazardous No information available. decomposition

products

Hazardous polymerization does polymerization

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
Tween 20	= 36700 μL/kg (Rat)	no data available	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			
Tween 20 9005-64-5 ( 10 - 30 )	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.

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### **End of Safety Data Sheet**

# **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 R0510

Product name Elution Buffer

### Company/Undertaking Identification

Ocean NanoTech, LLC. 7964 Arjons Dr. Suite G San Diego, CA 92126 858-689-8808

info@oceannanotech.com

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

### 2. Hazards identification

### **GHS - Classification**

Signal Wordnot hazardousHealth Hazardnot hazardousPhysical Hazardsnot hazardous

### **Principle Routes of Exposure/**

#### **Potential Health effects**

**Eyes** May cause eye irritation with susceptible persons. **Skin** May cause skin irritation in susceptible persons.

InhalationMay be harmful by inhalation.IngestionMay be harmful if swallowed.

**Specific effects** 

Carcinogenic effects none
Mutagenic effects none
Reproductive toxicity none
Sensitization none

**Target Organ Effects** No known effects under normal use conditions.

#### **HMIS**

2 Composition/information on ingradients				
Reactivity	0			
Flammability	0			
Health	0			

#### 3. Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

#### 4. First aid measures

**Skin contact** Rinse with plenty of water. If symptoms arise, call a physician.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. If symptoms persist, call a physician.

**Ingestion** Never give anything by mouth to an unconscious person. If symptoms persist,

call a physician. Do not induce vomiting without medical advice.

**Inhalation** Move to fresh air. If symptoms persist, call a physician. If not breathing, give

artificial respiration.

Notes to physician Treat symptomatically.

### 5. Fire-fighting measures

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.

### 6. Accidental release measures

Personal precautions
Methods for cleaning up

Use personal protective equipment. 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 Always wear recommended Personal Protective Equipment. No special handling

advice required.

**Storage** Keep in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

### **Exposure limits**

We are not aware of any national exposure limit.

**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** Safety glasses with side-shields. **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
Odor
No information available
No information available

Boiling Point/Range

°C no data available

Melting point/range

°C no data available

°C no data available

°F no data available

Flash point

°C no data available

Oxidizing properties Water information available. solubility soluble pH VALUE 8

### 10. Stability and reactivity

**Stability** Stable under normal conditions.

Materials to avoid No dangerous reaction known under conditions of normal use.

Hazardous decomposition None under normal use

products

**Polymerization** Hazardous polymerization does not occur.

### 11. Toxicological information

### **Acute toxicity**

not hazardous

### Principle Routes of Exposure/

### **Potential Health effects**

EyesnoneSkinnoneInhalation Ingestionnone

Carcinogenic effectsnoneMutagenic effectsnoneReproductive toxicity Sensitizationnone

### **Target Organ Effects**

May cause eye irritation with susceptible persons.

May cause skin irritation in susceptible persons.

May be harmful by inhalation. May be harmful if swallowed.

No known effects under normal use conditions.

### 12. Ecological information

Ecotoxicity effectsNo information available.MobilityNo information available.BiodegradationInherently biodegradableBioaccumulationDoes not bioaccumulate.

### 13. Disposal considerations

Dispose of in accordance with local regulations.

### 14. Transport information

#### **IATA**

**Proper shipping name** Not classified as dangerous in the meaning of transport regulations

Hazard class none
Subsidiary Class none
Packing group none
UN-No None

### 15. Regulatory information

### 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

### **California Proposition 65**

This product does not contain chemicals listed under Proposition 65

### **WHMIS Hazard Class**

Non-controlled

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

(M)SDS sections updated.

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**End of Safety Data Sheet** 

# **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 R2355

Product name Wash Buffer 2

### Company/Undertaking Identification

Ocean NanoTech, LLC. 7964 Arjons Dr. Suite G San Diego, CA 92126 858-689-8808

info@oceannanotech.com

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

### 2. Hazards identification

### **GHS - Classification**

Signal Wordnot hazardousHealth Hazardnot hazardousPhysical Hazardsnot hazardous

### Principle Routes of Exposure/

#### **Potential Health effects**

**Eyes** May cause eye irritation with susceptible persons. **Skin** May cause skin irritation in susceptible persons.

InhalationMay be harmful by inhalation.IngestionMay be harmful if swallowed.

**Specific effects** 

Carcinogenic effects none
Mutagenic effects none
Reproductive toxicity none
Sensitization none

**Target Organ Effects** No known effects under normal use conditions.

### **HMIS**

0. 0				
Reactivity	0			
Flammability	0			
Health	0			

#### 3. Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

#### 4. First aid measures

**Skin contact** Rinse with plenty of water. If symptoms arise, call a physician.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. If symptoms persist, call a physician.

**Ingestion** Never give anything by mouth to an unconscious person. If symptoms persist,

call a physician. Do not induce vomiting without medical advice.

**Inhalation** Move to fresh air. If symptoms persist, call a physician. If not breathing, give

artificial respiration.

Notes to physician Treat symptomatically.

### 5. Fire-fighting measures

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.

### 6. Accidental release measures

Personal precautions
Methods for cleaning up

Use personal protective equipment. 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 Always wear recommended Personal Protective Equipment. No special handling

advice required.

**Storage** Keep in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

### **Exposure limits**

We are not aware of any national exposure limit.

**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** Safety glasses with side-shields. **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
Odor
No information available
No information available

Boiling Point/Range°C no data available°F no data availableMelting point/range°C no data available°F no data availableFlash point°C no data available°F no data availableAutoignition temperature°C no data available No°F no data available

Oxidizing properties Water information available. solubility soluble pH VALUE 8

### 10. Stability and reactivity

**Stability** Stable under normal conditions.

Materials to avoid No dangerous reaction known under conditions of normal use.

Hazardous decomposition None under normal use

products

**Polymerization** Hazardous polymerization does not occur.

### 11. Toxicological information

### **Acute toxicity**

not hazardous

### Principle Routes of Exposure/

### **Potential Health effects**

EyesnoneSkinnoneInhalation Ingestionnone

Carcinogenic effectsnoneMutagenic effectsnoneReproductive toxicity Sensitizationnone

#### **Target Organ Effects**

May cause eye irritation with susceptible persons.

May cause skin irritation in susceptible persons.

May be harmful by inhalation. May be harmful if swallowed.

No known effects under normal use conditions.

### 12. Ecological information

Ecotoxicity effectsNo information available.MobilityNo information available.BiodegradationInherently biodegradableBioaccumulationDoes not bioaccumulate.

### 13. Disposal considerations

Dispose of in accordance with local regulations.

### 14. Transport information

### **IATA**

**Proper shipping name** Not classified as dangerous in the meaning of transport regulations

Hazard class none
Subsidiary Class none
Packing group none
UN-No None

### 15. Regulatory information

### **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**

### **California Proposition 65**

This product does not contain chemicals listed under Proposition 65

### **WHMIS Hazard Class**

Non-controlled

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

(M)SDS sections updated.

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**End of Safety Data Sheet** 

## **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. 7964 Arjons Dr. Suite G San Diego, CA 92126 858-689-8808 info@oceannanotech.com

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** Irritating to eyes. **Eyes** Irritating to skin. Skin May be harmful by Inhalation

inhalation. Harmful if Ingestion swallowed.

**Specific effects** 

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

**HMIS** 

1111110	
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

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**

Handling

Storage

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

**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** 

Prevent product from entering drains.

controls

### 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** available available temperature °C no data °F no data available available °C no data °F no data

available available.

**properties** no data available

Water 6.5

solubility pH VALUE

Oxidizing

10. Stability and

reactivity

Stable under normal **Stability** 

conditions. Materials to avoid

No information available. Hazardous No information available. decomposition

products

Hazardous polymerization does polymerization

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.

Ingestion Harmful if swallowed.

**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** 

Not classified as dangerous in the meaning of transport **UN-No** 

regulations none none none none

15. Regulatory information			
Component	TSCA		
Guanidine hydrochloride 50-01-1	Listed		
(30-60)			

### **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**