

# Bioland Scientific LLC

## Material Safety Data Sheet

Version 1.0  
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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name 20x MOPS-SDS Running Buffer

Catalog Number MOPS01  
Brand Bioland Chemicals

Company Bioland Scientific LLC  
14925 Paramount Blvd., Suite C  
Paramount, CA 90723  
USA

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### 2. HAZARDS IDENTIFICATION

#### GHS- Classification

Signal Word  
**WARNING**



#### Health Hazard

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3

#### **Physical Hazards**

not hazardous

#### **Hazard statements**

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

#### **Precautionary statements**

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P332 + P313 - If skin irritation occurs: Get medical advice/attention  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
P362 - Take off contaminated clothing and wash before reuse

### **Principle Routes of Exposure/Potential Health effects**

Eyes	Irritating to eyes.
Skin	Irritating to skin.
Inhalation	Irritating to respiratory system.
Ingestion	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### **Specific effects**

Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitization	None

### **Target Organ Effects**

None under normal use conditions

### **HMIS**

Health	1
Flammability	0
Reactivity	0

## **3. Composition/information on ingredients**

Chemical Name	CAS-No	EINECS-No	Weight %
4-Morpholinepropanesulfonic acid	1132-61-2	214-478-5	10-30
TRIS Base	77-86-1	201-064-4	7-13
sodium dodecyl sulfate	151-21-3	205-788-1	1-5

We recommend using all chemicals with caution.

## **4. FIRST AID MEASURES**

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.
Ingestion	Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Notes to physician	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical

### Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

### Methods for cleaning up

Soak up with inert absorbent material.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

CHEMICAL NAME	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
4-Morpholinepropanesulfonic acid	None	None	None	None
TRIS Base	None	None	None	None
sodium dodecyl sulfate	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	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. Do not allow material to contaminate ground water system.

## 9. Physical and chemical properties

### General Information

Form	Liquid
Appearance	No information Available
Odor	No information Available
Oxidizing properties	No information Available
Water solubility	Soluble
Boiling Point/Range	No Data Available
Melting Point/Range	No Data Available
Flash Point	No Data Available
Autoignition Temperature	No Data Available

## 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Hazardous decomposition	No information available
Products Polymerization	None under normal processing
Materials to avoid	No information available

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### Principle Routes of Exposure/Potential Health effects

Eyes	Irritating to eyes
Skin	Irritating to skin
Inhalation	Irritating to respiratory system
Ingestion	May be harmful if swallowed Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitization	None

### Target organ Effects

No known effects under normal use conditions.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity effects	No information available
Mobility	No information available
Biodegradation	Inherently biodegradable
Bioaccumulation	Does not bioaccumulate

Chemical Name	sodium dodecyl sulfate 151-21-3
Fresh Algae Data	Desmodesmus subspicatus EC50=53 mg/L (72 h)  Pseudokirchneriella subcapitata EC50=3.59 - 15.6 mg/L (96 h)  Pseudokirchneriella subcapitata EC50=117 mg/L (96 h)  Desmodesmus subspicatus EC50=30 - 100 mg/L (96 h)
Water Flea Data	Daphnia magna EC50=1.8 mg/L (48 h)
Freshwater Fish Species Data	
Microtox Data	
Log Pow	logPow1.6

## 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

Component	TSCA
4-Morpholinepropanesulfonic acid 1132-61-2 ( 10-30 )	Listed
TRIS Base 77-86-1 ( 7-13 )	Listed
sodium dodecyl sulfate 151-21-3 ( 1-5 )	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 contain HAPs.

### U.S. State Regulations

Chemical name	Massachusetts-RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island-RTK
4-Morpholinepropanesulfonic Acid	-	-	-	-	-
TRIS Base	-	-	-	-	-
sodium dodecyl sulfate	-	-	-	-	-

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 (M) SDS sections updated.

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

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