



IBI SCIENTIFIC

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Rev. 3

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

Product Name: MOPS
Product Code: IB70170
Recommend Use: For further manufacturing use only
Not for human or animal drug use
Zwitterionic buffer for cell culture, enzyme assay, some electrophoretic applications
Company: IBI SCIENTIFIC
9861 Kapp Court
Peosta, IA 52068
Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703
Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484
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2. HAZARDOUS IDENTIFICATION

GHS – Classification

Classification: Skin Irritant 2 Eye Irritant 2

Signal Word: Warning



Hazard Statements: H315-Causes skin irritation * H319-Causes serious eye irritation * H335-May cause respiratory irritation.

Precautionary Statements: P280-Wear protective gloves/protective clothing/eye protection/face protection *
P302+P352-IF ON SKIN: Wash with plenty of soap and water * P304+P340-IF
INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
breathing * P311-Call a Poison Center or doctor/physician * P305+P351+P338-IF IN
EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
and easy to do. Continue rinsing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: 4-Morpholinepropanesulfonic acid
EC No.: EEC No. 214-478-5
REACH Reg. No.: Not Available
CAS No.: 1132-61-2
Weight %: 95-100%
Classification: R43

4. FIRST AID MEASURES

Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact:	Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.
Inhalation:	Move to fresh air. If breathing becomes difficult, give oxygen.
Ingestion:	Clean mouth with water and afterwards drink plenty of water.
Notes to Physician:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties:	Not flammable
Flash Point:	Not determined
Suitable Extinguishing Media:	Dry chemical, CO ₂ , water spray, or regular foam
Hazardous Combustion Products:	Carbon oxides, Nitrogen oxides (NO _x), Sulfur oxides
Explosion Data	
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	Not sensitive
Protective Equip. & Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation.
Methods for Containment:	Prevent further leakage or spillage, if safe to do so.
Methods for Cleaning Up:	Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice.
Storage:	Keep container tightly closed in a dry, cool, and well ventilated place. Hygroscopic. Protect from moisture.
Incompatible Products:	Strong oxidizing agents. Strong bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures:	Showers, Eyewash Stations, Ventilation Systems
<u>Personal Protective Equipment</u>	
Eye/Face Protection:	Safety glasses with side shields.
Skin & Body Protection:	Wear protective gloves/clothing.
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Fine white powder
Odor:	No information available
Odor Threshold:	No information available
Decomposition Temp. °C:	No information available
Freezing Point:	No information available

Initial Boiling Point:	No information available
Physical State:	Crystalline powder
pH:	No data available
Flash Point:	No data available
Autoignition Temp. °C:	No data available
Boiling Point/Range:	No data available
Melting Point/Range:	277°C
Flammability Limits (Air):	<u>Upper</u> -No data available * <u>Lower</u> -No data available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Evaporation Rate:	No data available
MMHG @ 37.8°C:	No data available
Vapor Density:	No data available
Specific Gravity:	No data available
Density:	No data available
Solubility:	No information available
Water Solubility:	No data available
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Incompatible Products:	Strong oxidizing agents, Strong bases
Conditions to Avoid:	None known based on information supplied
Hazardous Decomposition Products:	Carbon oxides, Nitrogen oxides (NO _x), Sulfur oxides
Hazardous Polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information:	Causes skin, eye, and respiratory tract irritation.
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Chronic Toxicity

Chronic Toxicity:	No known effect based on information supplied.
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Target Organ Effects:	Mucous Membrane, Upper respiratory tract.
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12. ECOLOGICAL INFORMATION

Ecotoxicity:	The environmental impact of this product has not been fully investigated.
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13. DISPOSAL CONSIDERATIONS

Water Disposal Method:	Dispose of material in accordance with all federal, state, and local regulations.
Contaminated Packaging:	Dispose of in accordance with all federal, state, and local regulations.

14. TRANSPORT INFORMATION

IATA

Not regulated

US DOT

Not regulated

15. TOXICOLOGICAL INFORMATION

REACH Title VII Restrictions

Chemical Name:	No information available
Dangerous Substances:	4-Morpholinepropanesulfonic acid - #1132-61-2
Organic Solvents:	Not applicable
Harmful Substances Whose Names are to be indicated on the Label:	Not applicable
Pollution Release and Transfer Registry (Class II):	Not applicable
Pollution Release and Transfer Registry (Class I):	Not applicable
Poison and Deleterious Substances Control Law:	Not applicable
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable
Toxic Chemical Classification Listing (TCCL):	Not applicable
Toxic Release Inventory (TRI) – Group I:	Not applicable
Toxic Release Inventory (TRI) – Group II:	Not applicable

International Inventories

TSCA:	Complies
EINECS/ELINCS:	Complies
ENCS:	Does not comply
IECSC:	Complies
KECL	Does not comply
PICCS	Does not comply
AICS	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act

Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61). This product contains the following substances which are listed hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico

No information available

Canada

No information available

WHMIS Hazard Class
D2B – Toxic materials



16. OTHER INFORMATION

Issuing Date:	23-Dec-1997
Revision Date:	20-Dec-2011
Revision Note:	Update to GHS Standard
Recommended Restrictions:	No information available
Disclaimer:	The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the test.

End of MSDS