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Rev. 6

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

Product Name: MOPS
Product Code: IB70170
Recommend Use: For further manufacturing use only
Uses Advised Against: Not for human or animal drug use
Company: IBI SCIENTIFIC
7445 Chavenelle Road
Dubuque, IA 52002
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
E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION**GHS – Classification**

OSHA Regulatory Status: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)
Appearance: Fine White
Physical State: Crystalline Powder
Odor: No information available
Hazards not otherwise classified: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: 4-Morpholinepropanesulfonic
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, lifting lower and upper eyelids. 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 not breathing, give oxygen.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth.
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, regular foam
Hazardous Combustion Products:	Carbon oxides, Sulfur oxides, Nitrogen oxides (NO _x),
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.
Environmental Precautions:	See Section 12 for additional ecological information. Do not let enter drains.
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. Always wear personal protective equipment.
Storage:	Keep container tightly closed. Store at room temperature.
Incompatible Products:	Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Chemical Name:	4-Morpholinepropanesulfonic - #1132-61-2
ACGIH TLV:	-
OSHA PEL:	-
NIOSH IDLH:	-
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 crystalline 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:	Powder, fine
pH:	2.4 – 4 at 209g/L at 25°C
Flash Point:	110°C
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
Explosion Limits	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Evaporation Rate:	No information available
MMHG @ 37.8°C:	No data available
Vapor Density:	No data available
Specific Gravity:	No data available
Solubility:	209g/L at 20°C
Solubility in other solvents:	No data available
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	None under normal processing
Incompatible Products:	Strong oxidizing agents.
Conditions to Avoid:	Incompatible materials.
Hazardous Decomposition Products:	Carbon oxides, Nitrogen oxides (NO _x), Sulfur oxides.
Hazardous Polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information:	Inhalation:	May cause irritation of respiratory tract
	Eye Contact:	Irritating to eyes
	Skin Contact:	Irritating to skin.
	Ingestion:	There is no data available for this product

Chemical Name:	4-Morpholinepropanesulfonic - #1132-61-2
LD50 Oral:	-
LD50 Dermal:	-
LC50 Inhalation:	-

Information on toxicological effects

Symptoms: No information available.

Delayed and immediate effects as well as chronic effects from short and long term exposure

Sensitization:	No information available
Mutagenic Effects:	No information available
Carcinogenicity:	No information available
Chemical Name:	4-Morpholinepropanesulfonic - #1132-61-2
ACGIH:	-
IARC:	-
NTP:	-
OSHA:	-

Reproductive Toxicity: No information available
STOT – single exposure: Inhalation – May cause respiratory irritation
STOT – repeated exposure: No information available
Aspiration Effects: No information available

Numerical measures of toxicity – Product Information

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity: 100% of mixture consists of component(s) of unknown hazards to aquatic environment
Chemical Name: 4-Morpholinepropanesulfonic - #1132-61-2
Toxicity to Algae: -
Toxicity to Fish: EC50 – (Daphnia magna) > 100mg/L – 48hrs
Daphnia Magna (Water Flea): -
Persistence and Degradability: No information available
Bioaccumulation/Accumulation: No information available
Chemical Name: 4-Morpholinepropanesulfonic - #1132-61-2
Low Pow: -
Other Adverse Effects: No information available

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.
Contaminated Packaging: Do not re-use empty containers.
Chemical Name: 4-Morpholinepropanesulfonic - #1132-61-2
RCRA – Halogenated Organic Compounds: -
RCRA – P Series Wastes: -
RCRA – F Series Wastes: -
RCRA – K Series Wastes: -
Chemical Name: 4-Morpholinepropanesulfonic - #1132-61-2
California Hazardous Waste Status: -

14. TRANSPORT INFORMATION

IATA
 Not regulated
US DOT
 Not regulated

15. TOXICOLOGICAL INFORMATION

International Inventories

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

Legend:

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS: Japan Existing and New Chemical Substances
IECSC: China Inventory of Existing Chemical Substances
KECL Korean Existing and Evaluated Chemical Substances
PICCS Philippines Inventory of Chemicals and Chemical Substances
AICS Australian Inventory of Chemical Substances

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical or 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	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name:	4-Morpholinepropanesulfonic - #1132-61-2
CWA – Reportable Quantities:	-
CWA – Toxic Pollutants:	-
CWA – Priority Pollutants:	-
CWA – Hazardous Substances:	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name:	4-Morpholinepropanesulfonic - #1132-61-2
Hazardous Substances RQs:	-
Extremely Hazardous Substances RQs:	-
RQ:	-

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name:	4-Morpholinepropanesulfonic - #1132-61-2
California Prop. 65:	-

U.S. Right-to-Know Regulations

Chemical Name:	4-Morpholinepropanesulfonic - #1132-61-2
New Jersey:	-
Massachusetts:	-
Pennsylvania:	-

U.S. EPA Label Information

EPA Pesticide Registration #: Not applicable.

Canada

No information available

WHMIS Hazard Class

D2B – Toxic materials

**16. OTHER INFORMATION****Issuing Date:** 23-Dec-2009**Revision Date:** 17-Feb-2021**Revision Note:** Updated multiple sections**Recommended Restrictions:** No information available

Disclaimer: The information provided on this SDS 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 Safety Data Sheet