

## Safety Data Sheet MOPS Na Salt

### Section 1: Chemical Product and Company Identification

#### 1.1 Product Identifiers

**Product Name:** 3-morpholinopropane-1-sulfonic acid sodium salt

**Catalog Number(s):** MS5220

**CAS#:** 71119-22-7

**RTECS#:** NA

**REACH Number:** 01-2119915786-27-XXXX

#### 1.2 Recommended Use of the Chemical and restrictions of Use

Chemical manufacturing

#### 1.3 Supplier Details

BioSpectra, Inc.

100 Majestic Way

Bangor, PA 18013

610-599-3400

#### 1.4 Emergency Numbers:

**US & Canada:** 1-800-424-9300

**Outside the US & Canada:** +1 703-527-3887

### Section 2: Hazards Identification

#### 2.1 Classification of the Substance or Mixture

Non-hazardous

#### 2.2 GHS Label Elements Including Precautionary Statements

Non-hazardous

#### 2.3 Hazards not Classified or not Covered by the GHS

None available

### Section 3: Composition, Information on Ingredients

#### 3.1 Substances

**Synonyms:** 3-(N-Morpholino)propanesulfonic acid sodium salt  
4-Morpholinepropanesulfonic acid sodium salt

**Formula:** C<sub>7</sub>H<sub>14</sub>NNaO<sub>4</sub>S

**Molecular Weight:** 231.25 g/mol

**CAS#:** 71119-22-7

No hazardous ingredients present according to the criteria of OSHA

According to applicable regulations no components need to be disclosed

### Section 4: First Aid Measures

#### 4.1 Description of necessary first aid measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes.

**Skin:** Wash with soap and plenty of water.

**Ingestion:** Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person. If person is conscious, rinse mouth out with water.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

#### 4.2 Most Important Symptoms/Effects, Acute and Delayed

Refer to Section 2.2 for Precautionary Statements if any are applicable

#### 4.3 Indication of Immediate Medical Attention and Special Treatment

No information available

### Section 5: Firefighting Measures

#### 5.1 Extinguishing Media

In case of fire, use water, dry chemical, chemical foam, or carbon dioxide.

#### 5.2 Specific Hazards Associated with this Chemical

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), sulphur oxides, sodium oxides

#### 5.3 Special Equipment/Precautions for Firefighters

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Explosion will appear as fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### 5.4 Other Information

None available

### Section 6: Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use proper personal protective equipment as indicated in Section 8. Avoid dust formation. Avoid breathing dust, vapours, mist or gas.

#### 6.2 Environmental Precautions

Do not allow to enter drains

#### 6.3 Methods and Materials for Containment and Cleaning Up

Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Pick up spill for recovery or disposal and place in a closed container.

#### 6.4 Other Information

None available

### Section 7: Handling and Storage

#### 7.1 Precautions for Safe Handling

Provide appropriate exhaust ventilation at places where dust is formed.

#### 7.2 Conditions for Storage Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

#### 7.3 Other Information

None available

## Section 8: Exposure Controls, Personal Protection

### 8.1 Control Parameters

Chemical does not contain any substances with occupational exposure limits

### 8.2 Engineering Controls

Use adequate ventilation to keep airborne concentrations low.

### 8.3 Personal Protective Measures

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure. Wear impervious gloves. Nitrile rubber with layer thickness 0.11mm. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. A respiratory protection program that meets OSHA's 29 CFR '1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## Section 9: Physical and Chemical Properties

### 9.1 Chemical Property Information

<b>Physical State:</b> Solid	<b>Freezing/Melting Point:</b> 220.9 °C (429.6 °F)
<b>Appearance:</b> White Powder	<b>Boiling Point:</b> Not Available
<b>Odor:</b> Odorless	<b>Decomposition Temperature:</b> Not available.
<b>pH:</b> ),1M@ 25°C) 10-11	<b>Solubility:</b> 523 g/l at 20 °C
<b>Vapor Pressure:</b> Not Available	<b>Specific Gravity/Density:</b> 1.410 g/cm <sup>3</sup> at 20 °C
<b>Vapor Density:</b> Not Available	<b>Molecular Formula:</b> C <sub>7</sub> H <sub>14</sub> NNaO <sub>4</sub> S
<b>Viscosity:</b> Not available	<b>Molecular Weight:</b> 231.25 g/mol

## Section 10: Stability and Reactivity

### 10.1 Chemical Stability

Stable under normal temperatures and pressures.

### 10.2 Conditions to Avoid

Incompatible materials, dust generation, excess heat.

### 10.3 Incompatibilities with Other Materials

Strong oxidizing agents

### 10.4 Hazardous Decomposition Products

May form carbon oxides, nitrogen oxides, and sulfur oxides when heated to decomposition.

### 10.5 Hazardous Polymerization

Will not occur.

## Section 11: Toxicological Information

### 11.1 Toxicological effects

#### Acute Toxicity:

**LD 50 Oral – Rat:** >200 mg/kg  
(Directive 67/548/EEC, Annex V, B.1.)

#### Skin corrosion/irritation

Rabbit: No skin irritation  
(Directive 67/548/EEC, Annex V, B.4.)

#### Serious eye damage/irritation

Rabbit: No eye irritation  
(Directive 67/548/EEC, Annex V, B.5.)

#### Respiratory or skin sensitization

Maximization Test - guinea pig: Did not cause sensitisation on laboratory animals.  
(Directive 67/548/EEC, Annex V, B.6.)

#### Germ cell mutagenicity

S. typhimurium: Not mutagenic in Ames Test.

#### Reproductive:

Not available

#### Teratogenicity:

Not available

#### Neurotoxicity:

Not available

#### Other Studies:

Not available

**Carcinogenicity:** 71119-22-7 is not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

#### Additional Information:

**RTECS#:** NA

**CAS#** 71119-22-7 is unlisted.

To the best of our knowledge the associated physical, chemical and toxicological properties of this chemical have not undergone thorough investigation, all known information is contained in this SDS.

## Section 12: Ecological Information

### 12.1 Ecotoxicity

#### Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea): > 100 mg/l - 24 h  
(Directive 67/548/EEC, Annex V, C.2.)  
LC50 - Daphnia magna (Water flea): > 100 mg/l - 48 h  
(Directive 67/548/EEC, Annex V, C.2.)

#### Toxicity to algae

EC50 - Desmodesmus subspicatus (green algae): > 100 mg/l - 72 h  
(OECD Test Guideline 201)  
NOEC - Desmodesmus subspicatus (green algae) - 100 mg/l - 72 h  
(OECD Test Guideline 201)

### 12.2 Persistence and Degradability

Not readily biodegradable

### 12.3 Bioaccumulative Potential

No information available

#### 12.4 Mobility in Soil

No information available

#### 12.4 Results of PBT and vPvB assessment

PBT/vPvB assessment is NA, chemical safety assessment not required/not conducted

#### 12.5 Other Adverse Effects

No information available

### Section 13: Disposal Considerations

#### 13.1 Disposal Methods

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14: Transport Information

#### 14.1 Transportation Regulations

	US DOT	IATA	IMDG
Shipping Name:	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods
Hazard Class:			
UN Number:			
Packing Group:			

### Section 15: Regulatory Information

#### 15.1 EHS Chemical Specific Regulations

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** No SARA Hazards

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:**

4-Morpholinepropanesulfonic acid, sodium salt  
CAS-No. 71119-22-7

**New Jersey Right To Know Components:**

4-Morpholinepropanesulfonic acid, sodium salt  
CAS-No. 71119-22-7

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**REACH Number:** 01-2119915786-27-XXXX

### Section 16: Additional Information

#### 16.1 Hazard Ratings

**NFPA Rating**

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

*The information conveyed in this Safety Data Sheet is only a representation of what BioSpectra has found to be accurate based on the current information that is available in regards to this compound. BioSpectra makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will BioSpectra assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if BioSpectra has been advised of the possibility of such damages.*