

# Safety Data Sheet Version 3.10 Revised: 2016-05-02

# **1. PRODUCT AND COMPANY IDENTIFICATION**

Emergency Telephone Number	Chemtrec 1-800-424-9300
E-mail Address	info@biomatik.com
Telephone Number	1-519-489-7195
<u>Supplier/Manufacturer</u> Biomatik Corporation 9-140 McGovern Dr. Cambridge, Ontario N3H 4R7 Canada	
Product Use	For Laboratory Research Use Only.
<u>Other means of identification</u> Product Code(s) Synonyms	A4135 No information available
Product Identifier Product Name	MES Free Acid Monohydrate

# 2. HAZARDS IDENTIFICATION

# Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

#### Label elements

Emergency Overview				
Warning				
Hazard statements H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation				
Appearance White to off-white	Physical State Crystalline Powder	Odor No information available		

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label) IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not regulated Other Information

Unknown Acute Toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
2-Morpholinoethanesulph	145224-94-8	-	95-100	Not applicable
onic acid				

# **4. FIRST AID MEASURES**

#### 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 artificial respiration.		
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth.		
Most important symptoms and effects, both acute and delayed			
Most Important Symptoms/Effects	No information available.		

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Sp	becit	fic Hazar	ds Arisir	ng from	the	<b>Chemical</b>	

No information available.

	Nitrogen oxides (NOx). Sulfur oxides. Carbon oxides.
Products	

Explosion Data Sensitivity to Mecha

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

# Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures				
Personal protection	Ensure adequate ventilation, especially in confined areas.			
Environmental Precautions				
Environmental Precautions	See Section 12 for additional Ecological information.			
Methods and material for containme	ent and cleaning up			
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				
Precautions for Safe Handling				
Handling	Handle in accordance with good industrial hygiene and safety practice.			
Conditions for safe storage, including any incompatibilities				
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.			

Incompatible Products Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

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Exposure Guidelines
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This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.				
Chemical Name ACGIH TLV OSHA PEL NIOSH IDLH				
2-Morpholinoethanesulphonic acid	-	-	-	

# Appropriate engineering controls

Engineering Measures

Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Avoid contact with eyes. Safety glasses with side-shields.		
Skin and 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

#### Information on basic physical and chemical properties

**Physical State Crystalline Powder** Appearance White to off-white No information available Odor Color No information available **Odor Threshold** No information available **Remarks** • Method Property Values No information available pН Melting point/freezing point **Boiling Point/Range** No information available Flash Point (High in °C) No information available **Evaporation Rate** No information available Flammability (solid, gas) No information available Flammability Limit in Air Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor Density No information available **Specific Gravity** No information available Water Solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available **Kinematic viscosity** No information available No information available Dynamic viscosity **Explosive Properties** No information available **Oxidizing Properties** No information available **Other Information Softening Point** No information available Molecular Weight No information available **VOC Content** No information available No information available Density **Bulk Density** No information available

# **10. STABILITY AND REACTIVITY**

#### Reactivity No data available

<u>Chemical Stability</u> Stable under recommended storage conditions. <u>Possibility of Hazardous Reactions</u> None under normal processing. <u>Conditions to Avoid</u> Extremes of temperature and direct sunlight. Incompatible Materials Strong oxidizing agents. Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

# **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	LD50 Oral	LD50 Dermal	LC50 Inhalation	
2-Morpholinoethanesulphonic acid	-	-	-	

#### Information on toxicological effects

Symptoms

No information available.

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

Sensitization Mutagenic Effects		No information available. No information available.			
Carcinogenicity	No informati	on available.			
Chemical Name	ACGIH	IARC	NTP	OSHA	
2-Morpholinoethanesulphoni c acid	-				
Reproductive Toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	e Respiratory	No information available. Respiratory system. No information available. No information available.			
Numerical measures of to	oxicity - Product Inform	ation			
Unknown Acute Toxicity	100 % of the	100 % of the mixture consists of ingredient(s) of unknown toxicity			

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
2-Morpholinoethanesulphonic acid	-	-	-

#### Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient	
2-Morpholinoethanesulphonic acid	-	

### **Other Adverse Effects**

No information available

# **13. DISPOSAL CONSIDERATIONS**

# Waste treatment methods

Waste Disposal Method

Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** 

Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	<b>RCRA - D Series Wastes</b>	RCRA - U Series Wastes
2-Morpholinoethanesulphoni	-	-	-	-
c acid				

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
2-Morpholinoethanesulphoni c acid	-	-	-	-

Chemical Name	California Hazardous Waste Status
2-Morpholinoethanesulphonic acid	-

# **14. TRANSPORT INFORMATION**

DOT	Not regulated
IATA	Not regulated

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not Comply
ENCS	Does not Comply
IECSC	Does not Comply
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

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 any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
2-Morpholinoethanesulphonic acid	-

# 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 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	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
2-Morpholinoethanesulphoni c acid	-	-	-	-

#### <u>CERCLA</u>

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

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
2-Morpholinoethanesulphonic acid	-	-	-

# U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
2-Morpholinoethanesulphonic acid	-

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Morpholinoethanesulphonic acid	-	-	-

#### **U.S. EPA Label Information**

EPA Pesticide Registration Number Not regulated

# **16. OTHER INFORMATION**

#### 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 text.

#### End of Safety Data Sheet