

Page : 1 Revised edition no : 0

Date : 23/01/24

Supersedes : 27/10/17

MES Monohydrate

MES

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Identification of the product	: Raw Material
Product code	: MES
Trade name	: MES Monohydrate
CAS number	: 145224-94-8
Structural Formula	: C6H13NO4S.H2O
Synonym(s)	: 2-(N-Morpholino)-ethanesulfonic acid
	4-Morpholineethanesulfonic acid monohydrate

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses	: For research purposes only
1.2.2 Uses advised against	No additional information available
1.3. Details of the supplier of the sa	afety data sheet
Company identification	: Formedium Ltd. King's Lynn, England, PE31 6DJ Tel: +44(0)1485 609069 Web: www.Formedium.com E-mail: info@formedium.com
1.4. Emergency telephone number	
Emergency telephone number	: Tel: +44(0)1485 609069 (local time : 9.00 to 17.00) National Poison Information Centre :Europe UK : +44 0845 4647 (this

service is only available to health professionals) See <u>www.toxbase.org</u> for a local poison centre

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not regulated

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazards pictograms code	: None
Precautionary statements	: None

2.3 Other hazards

None under normal conditions.



Page : 2 Revised edition no: 0

Date : 23/01/24

Supersedes : 27/10/17

MES Monohydrate

MES

SECTION 3 Composition/information on ingredients

Substance		: This product is	s not classified a	as hazardous.		
Substance name:	Contents	CAS No:	EC No:	Annex No:	Ref REACH	Classification
MES Monohydrate	>99%	145224-94-8	224-632-3			Not classified

SECTION 4 First aid measures

4.1. Description of first aid measures

General information	:	Seek medical attention if ill effect develops.
Inhalation	:	Remove victim to fresh air.
Skin contact	::	Flush with plenty of water.
Eye contact	:	Rinse with water.
Ingestion	:	Seek medical attention if ill effect develops, Give water to drink.

4.2. Most important symptoms and effects, both acute and delayed

Symptons and effects, both acute and delayed. : No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Medical attention and special treatment needed. : No data available.

SECTION 5 Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Dry powder Water spray Alcohol-resis	stant foam	
5.2. Special hazards arising fi	om	the substar	nce or mixture	
When heated to decomposition, en	nits t	oxic fumes.	NOx	

NOX	
SOx	
COx	

5.3. Advice for firefighters

Protection against fire	: Wear proper protective equipment.
Special procedures	: Avoid (reject) fire fighting water to enter environment.



Page : 3 Revised edition no : 0

Date : 23/01/24

Supersedes : 27/10/17

MES Monohydrate

MES

SECTION 6 Accidental release	measures
6.1. Personal precautions, p	rotective equipment and emergency procedures
Technical measures	: Use good housekeeping practices to avoid rendering dust airborne.
6.2. Environmental precaution	ons
Environmental precautions	: Prevent entry to sewers and public waters.
6.3. Methods and material fo	r containment and cleaning up
Clean up methods	: Dispose in a safe manner in accordance with local / national regulations. Sweep up dry powder and dispose properly.
6.4. Reference to other secti	ons
For disposal see section 13.	
SECTION 7 Handling and stora	ge
7.1. Precautions for safe har	ndling
General	: Store in a dry, well-ventilated area.
7.2. Conditions for safe stor	age, including any incompatibilities
Storage conditions	: Store in a dry, cool area. Store at room temperature.
7.3. Specific end use(s)	
Specific end use(s)	: For research purposes only
SECTION 8 Exposure controls/	personal protection

8.1. Control parameters

No additional information available.

8.2. Exposure controls

- Eye protection
- Skin protection
- : Safety glasses.
- : Wear suitable protective clothing.
- Hand protection
 Respiratory protection
- : In case of repeated or prolonged contact wear gloves.
- : Where excessive dust may result, wear approved mask. Type P1 (EN143)

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties.

<u>Appearance</u> Physical state at 20°C Colour Odour

: Crystalline Powder : White. : Odourless



MES Monohydrate

Page : 4 Revised edition no : 0

Date : 23/01/24

Supersedes : 27/10/17

MES

Odour threshold	: Not established.
рН	: 5.5 – 6.7
pKa (25°C)	: 6.1
Melting point (°C)	: > 300
Boiling point (°C)	: No data available.
Flash point (°C)	: No data available.
Evaporation rate (ether=1)	: No data available.
Flammability range (vol % in air)	: No data available.
Explosion limits	: No data available.
Vapour pressure	: No data available.
Relative vapour density (air = 1)	: No data available.
Relative Density	: No data available.
Solubility in water	: > 100 g/L
Log P octanol / water at 20°C	: No data available.
Auto ignition temperature (°C)	: No data available.
Thermal decomposition (°C)	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.

9.2. Other information

No additional information available



Page : 5 Revised edition no : 0

Date : 23/01/24

Supersedes : 27/10/17

MES Monohydrate

MES

ECTION 10 Stability and reac	tivity	
10.1. Reactivity		
Stable under normal conditions, h	andling and use	
10.2. Chemical stability	anding and use.	
Stable under recommended stora	-	
10.3. Possibility of hazardou		
Hazardous reactions	: No data available.	
10.4. Conditions to avoid No data available.		
10.5. Incompatible materials	5	
Materials to avoid	- : Bases,	
	Strong oxidizers.	
	0	
10.6. Hazardous decomposi	tion products	
Hazardous decomposition proc	lucts : Car	bon dioxide (CO2), Carbon monoxide.
CTION 11 Toxicological info	rmation	
11.1. Information on toxicol	ogical effects	
	<u>igidal circols</u>	
Toxicity information		: This product is non-hazardous.
11.2. Additional information Endocrine disrupting properties		: The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
CTION 12 Ecological inform	ation	
12.1. Toxicity		12.7. Endocrine disrupting properties
No data available.		The Substance/mixture does not contain
12.2. Persistence and degra	dability	components considered to have endocrine disrupting properties according to REACH

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

No data available. Ecological effects information : No data available. The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



Page : 6 Revised edition no : 0 Date : 23/01/24

MES Monohydrate

MES

Supersedes : 27/10/17

SECTION 13 Disposal considerations

13.1. Waste treatment methods

General

Avoid release to the environment. Dispose in a safe manner in accordance with local / national regulations.

SECTION 14 Transport information

14.1. UN Number

 Not applicable
 : Not classified as dangerous in the meaning of transport regulations.

 14.2. UN Proper shipping name
 : Not classified as dangerous in the meaning of transport regulations.

 Not applicable.
 : Not applicable.

 14.4. Packing group
 : Not applicable.

 Not applicable.
 : Not applicable.

 14.5. Environmental hazards
 : Not applicable.

 Not applicable.
 : Not applicable.

 14.6. Special precautions for user
 : Not applicable.

 SECTION 15 Regulatory information
 : Not applicable.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830. Ensure all national / local regulations are observed.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 Other information	
	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. Complete SDS revision

End of document