According to Regulation (EC) No. 1272/2008 Language : English

Safety Data Sheet

Revision: 3.00 Modified: 2021-11-05

1: Identification of substance / mixture

1. Product Identifier Substance

Product Name MOPS Free Acid

Product Code M92020 CAS Number 1132-61-2

Other Names 3-(Morpholino)propanesulphonic acid

M92020

IUPAC

MFCD Number

EC/EINECS 214-478-5

REACH Number Index-No

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

Research and Laboratory Use Only

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd Bildeston Road, Chelsworth

Ipswich Suffolk IP77LE

folk Telephone: 7LE Fax:

JK Email:



01449 741178 01449 741217

support@melford.co.uk

4. Emergency telephone number

+44(0)1449 741178 -

2. Hazards Identification

1. Classification of the substance or mixture

2. Label elements

Signal Word Warning



Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

According to Regulation (EC) No. 1272/2008

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Revision: 3.00 Modified: 2021-11-05

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MOPS Free Acid

CAS Number: 1132-61-2
EC/EINECS: 214-478-5

Hazards

Concentration

Concentration

Concentration

Concentration

Concentration

Concentration

4. First Aid Measures

1. Description of first aid measures

Skin Contact P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.

Consult a doctor.

Eye Contact P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

Bathe the eye with running water for 15 minutes.

Ensure adequate flushing by separating the eyelids with fingers

Consult a doctor.

Ingestion Wash out mouth with water.

Consult a doctor.

Inhalation Supply fresh air; consult a doctor in case of complaints.

If breathing becomes bubbly, have the casualty sit and provide oxygen if available.

Treat sympomatically. Consult a doctor.

2. Most important symptoms and effects

No data available

3. Indication of any immediate medical attention

No data available

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.

Carbon dioxide.

Alcohol or polymer foam. Dry chemical powder.

Unsuitable n/a

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

4. Preventing the occurrence of secondary hazards.

According to Regulation (EC) No. 1272/2008

Safety Data Sheet

Language: English Modified: 2021-11-05

Clean up all spills immediately. Wear suitable PPE.

7. Handling and Storage

1. Personal Precautions

Safe Handling Ensure there is sufficient ventilation of the area.

Avoid direct contact with the substance.

Protection against explosions and fires Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Managing Storage Risks

No special requirements Storage Controls

Maintaining Integrity No special requirements

Other advice no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures

P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling

Engineering measures

Ensure there is exhaust ventilation of the area.

Eye / Face Protection

Safety Goggles.

Use equipment for eye protection tested and approved under appropriate government standards

such as NIOSH (US) or EN 166(EU)

Hand protection

Handle with gloves. 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the

standard EN 374 derived from it

Respiratory protection

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

Respiratory protective device with particle filter.

Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and

approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Other personal protection

advice

no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	White powder
Odour	Slight characteristic
Odour threshold	No Data Available
PH	2.5-4.0 (at 25°C) for 209 g/l in water

Revision: 3.00

According to Regulation (EC) No. 1272/2008 Language : English

Safety Data Sheet

Revision: 3.00 Modified: 2021-11-05

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Melting point / Freezing point	277°C
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	209 g/l at 20°C in water
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

No data available

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

No data available

4.Conditions to Avoid

No data available

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes, carbon dioxide

11. Toxicology information

1. Information

Acute Toxicity no data

Skin corrosion/irritation no data

Serious eye

no data

Damage/irritation Respiratory or skin

no data

sensitisation

Germ Cell mutagenicity not known

Carcinogenicity not known

Reproductive toxicity not known

STOT-single exposure not known

STOT-repeated exposure not known

According to Regulation (EC) No. 127 Language : English	72/2008	Safety Data Sheet	Revision: 3.00 Modified: 2021-11-05
Aspiration hazard	not known		
2. Additional To the best of our knowled	dge the acute and o	chronic toxicity of this substance is not fully known.	
12. Ecological Information	1		
1. Toxicity			
not known			
2. Persistence and deg	radability		
not known			
3. Bio-Accumulative Po	otential		
not known			
4. Mobility and Soil			
not known			
5. Results of PBT & vP	vB assessment		
not known			
6. Other adverse effect	S		
not known			
13. Disposal Consideration	ons		
1. Waste Treatment Me	ethods		
Disposal Operations	Consult state, lo	cal or national regulations for proper disposal.	
Disposal of Packaging	Disposal must be	e made according to official regulations.	
14. Transport Information			
Air (ICAO)			
Not classified as hazardou	is for transport		
Road (ADR)			
Not classified as hazardou	s for transport		
Sea (IMDG)			
Not classified as hazardou	s for transport		

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

According to Regulation (EC) No. 1272/2008 Language : English

Safety Data Sheet

Revision: 3.00 Modified: 2021-11-05

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.