



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3/7/2019 Version: 1.0

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

1.1. Product identifier

Product form : Substance
Substance name : HEPES Sodium salt

IUPAC name : 2-[4-(2-hydroxyethyl)-1-piperazine] ethanesulfonic acid, sodium salt

 EC-No.
 : 278-169-7

 CAS-No.
 : 75277-39-3

 Product code
 : 80267503

 Formula
 : C8H17N2NaO4S

 Product group
 : Raw material

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

1.2.1. Relevant identified uses

Main use category : Laboratory use, Industrial use, Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Scafell Organics Molekula Ltd Lingfield Way Darlington - England

T +44 (0) 1949 823777 / +44 (0) 7590 545705

info@molekula.com / kbowen@molekula.com - www.molekula.com

1.4. Emergency telephone number

Emergency number +44 (0) 7590 545705

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Not classified.

2.3 Other hazard

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

HEPES Sodium salt (CAS-No.) 75277-39-3 100	Name	Product identifier	%				
(EC-No.) 278-169-7		,	100				

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If possible show this sheet, if not available show packaging or label. If you feel unwell, seek

medical advice. Do not leave affected person unattended.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : If skin irritation or rash occurs: Rinse skin with water/shower. Do not remove clothing if it

sticks to the skin.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Do not give an unconscious person

anything to drink.

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

: Not expected to present a significant hazard under anticipated conditions of normal use. Symptoms/effects

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure.

Symptoms/effects after skin contact : Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/effects after eye contact : Dust from this product may cause eye irritation. redness, itching, tears. Symptoms/effects after ingestion : May cause irritation to the digestive tract. Abdominal pain, nausea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand. Suitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Nitrogen oxides. Sodium Oxides. Sulphur oxides.

5.3. Advice for firefighters

Precautionary measures fire : Keep container tightly closed and away from heat, sparks and flame. Exposure to fire/heat:

seal off low-lying areas.

Firefighting instructions Do not enter fire area without proper protective equipment, including respiratory protection.

Evacuate area. Use water spray or fog for cooling exposed containers. Use extinguishing

agent suitable for surrounding fire.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

Other information : Warn all persons of toxic hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

: No flames, no sparks. Eliminate all sources of ignition. Isolate from fire, if possible, without General measures

unnecessary risk. Avoid dust formation.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent

access to unauthorized personnel. Avoid contact with skin, eyes and clothing. Do not touch or walk on the spilled product.

Measures in case of dust release : Keep upwind. Ventilate the area thoroughly, especially low lying areas (basements,

workpits etc).

6.1.2. For emergency responders

: Use self-contained breathing apparatus and chemically protective clothing. Protective equipment

: Stop release. Prevent from entering sewers, basements and workpits, or any place where **Emergency procedures**

its accumulation can be dangerous.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away

from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Does not present any particular risk, provided it is handled in accordance with good

occupational hygiene and safety practice and that precautions are taken to avoid the inhalation of dust. Ensure good ventilation of the work station. Do not handle until all safety

precautions have been read and understood.

: Take off immediately all contaminated clothing and wash it before reuse. Contaminated Hygiene measures

work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation, especially in confined areas.

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Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Hygroscopic. Protect from moisture.

Incompatible products : Oxidising agents

Incompatible materials : Refer to Section 10 on Incompatible Materials.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Storage area : Store at ambient temperature. Store in dry protected location to prevent any moisture

contact

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure exposure is below occupational exposure limits (where available). Ensure that there is a suitable ventilation system. Handle in accordance with good industrial hygiene and safety procedures.

Personal protective equipment:

Avoid all unnecessary exposure. Wear recommended personal protective equipment.

Hand protection:

The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374. Always wash hands after handling the product

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.11		EN 374

Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts.

Туре	Use	Characteristics	Standard		
Safety glasses	Dust	With side shields	EN 166		

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use. Wash all protective clothing after use

Туре	Standard
Long sleeved protective clothing	EN ISO 13982

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. No respiratory protection needed under normal use conditions

Device	Filter type	Condition	Standard
Dust mask	Type P1	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Appearance : Powder. Molecular mass : 260.29 g/mol Colour : White to off white. · No data available Odour Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available

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Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Moisture. Water, humidity.

10.5. Incompatible materials

Oxidising agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates: Carbon oxides (CO, CO2). Nitrogen oxides. Sodium Oxides. Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
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Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

HEPES Sodium salt (75277-39-3)

LD50 oral rat	> 2	000 m	ıg/kç)					
Skin corrosion/irritation :	Not	classit	fied						
	_				 		 		

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

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Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

: Not classified Acute aquatic toxicity Chronic aquatic toxicity : Not classified

HEPES Sodium salt	(75277-30-3)
HERES Souluili Sait	(10211-05-0)

EC50 Daphnia 1 > 100 mg/l Daphnia magna (Water flea) 48hr

EC50 72h algae (1) > 100 mg/l Pseudokirchneriella subcapitata (green algae) 72hr

12.2. Persistence and degradability

HEPES Sodium salt (75277-39-3)

Persistence and degradability No data available.

12.3. Bioaccumulative potential

HEPES Sodium salt (75277-39-3)

Bioaccumulative potential No data available.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

HEPES Sodium salt (75277-39-3)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	ADR IMDG IATA ADN									
14.1. UN number										
Not regulated	Not regulated Not regulated Not regulated Not regulated									
14.2. UN proper shipping name										
Not regulated Not regulated Not regulated Not regulated Not regulated										
14.3. Transport hazard class(es)										
Not regulated	Not regulated Not regulated Not regulated Not regulated									
14.4. Packing group										
Not regulated Not regulated Not regulated Not regulated Not regulated										
14.5. Environmental hazards										
Not regulated Not regulated Not regulated Not regulated Not regulated										
No supplementary information available										

Overland transport

14.6. Special precautions for user

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

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Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
HEPES Sodium salt is not on the REACH Candidate List
HEPES Sodium salt is not on the REACH Annex XIV List

15.1.2. National regulations

Directive 2012/18/EU (SEVESO III)

Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BlmSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen : HEPES Sodium salt is listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: The substance is not listed

: The substance is not listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Data sources :

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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