

# Safety data sheet

Page 1/7

according to 1907/2006/EC, Article 31

Printing date 28.06.2021 Revision: 28.06.2021 Version number 6.01 (replaces version 6.00)

SECTION 1: Identification of the substance/mixture undertaking	and of the company/
· 1.1 Product identifier	
· Trade name: MOPS	
<ul> <li>Article number: A1076</li> <li>CAS Number: 1132-61-2</li> <li>EC number: 214-478-5</li> <li>Application of the substance / the mixture Laboratory chemicals Molecular biology Biochemistry</li> </ul>	
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: AppliChem GmbH Ottoweg 4 D-64291 Darmstadt</li> </ul>	Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com
• Further information obtainable from: Dept. Compliance • 1.4 Emergency telephone number: +49(0)6151 93570 (Inside normal b	uisness hours)
SECTION 2: Hazards identification	
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>Skin Irrit. 2 H315 Causes skin irritation.</li> <li>Eye Irrit. 2 H319 Causes serious eye irritation.</li> <li>STOT SE 3 H335 May cause respiratory irritation.</li> </ul>	
· 2 2 Label elements	

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

- The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms



Signal word Warning
 Hazard statements
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

(Contd. on page 2)

<sup>-</sup> GB

Printing date 28.06.2021 Revision: 28.06.2021 Version number 6.01 (replaces version 6.00)

#### Trade name: MOPS

H335 May cause Precautionary	e respiratory irritation.
P261	
	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contac lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/nationa international regulations.
2.3 Other haza	rds
Booulto of DBT	and vPvB assessment

• **vPvB:** Not applicable.

#### **SECTION 3: Composition/information on ingredients**

- 3.1 Substances • CAS No. Description 1132-61-2 MOPS
- Identification number(s)
- · EC number: 214-478-5

## **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

• General information: Involve doctor immediately.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

## · After skin contact:

Immediately rinse with water. Immediately remove any clothing soiled by the product. If skin irritation continues, consult a doctor.

- After eye contact:
   Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
   After swallowing:
- Rinse out mouth.

make victim drink water (maximum of 2 drinking glasses) Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide

Sulphur oxides (SOx)

Non-combustible.

#### · 5.3 Advice for firefighters

• **Protective equipment:** Wear self-contained respiratory protective device.

(Contd. on page 3)

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(Contd. of page 2)

#### Trade name: MOPS

#### · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Avoid substance contact. Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- $^{\circ}$  6.3 Methods and material for containment and cleaning up:
- Pick up mechanically. Avoid formation of dust. Ensure adequate ventilation. Clean up affected area.
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Any unavoidable deposit of dust must be regularly removed. • **Information about fire - and explosion protection:** The product is not flammable.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- $\cdot$  Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

- · Recommended storage temperature: Room Temperature
- · Storage class: 13
- 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter P2

(Contd. on page 4)

## Trade name: MOPS

## · Hand protection

(Contd. of page 3)



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq$  0.11 mm Value for the permeation: Level  $\geq$  480 min

• As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq$  0.11 mm Value for the permeation: Level  $\geq$  480 min

Eye/face protection



Tightly sealed goggles

· Body protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

# **SECTION 9: Physical and chemical properties**

0.4 Information on basis abusised and show	is all when a with a	
9.1 Information on basic physical and chem	lical properties	
General Information		
· Physical state	Solid	
· Colour:	White	
· Odour:	Nearly odourless	
· Odour threshold:	Not determined.	
<ul> <li>Melting point/freezing point:</li> </ul>	>250 °C	
Boiling point or initial boiling point and boil	ling	
range	Undetermined.	
Flammability	Product is not flammable.	
· Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	277 - 281 °C	
· pH	3.5-4.5 (2%)	
· Viscosity:	5.5-4.5 (270)	
•	Notappliable	
· Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
Solubility		
· water at 20 °C:	~600 g/l	
		(Contd. on page 5)

i page o

# Safety data sheet according to 1907/2006/EC, Article 31

Page 5/7

Trade name: MOPS

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Partition coefficient n-octanol/water (log va	Ilue) -2.9393
Vapour pressure:	Not applicable.
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
9.2 Other information	
Appearance:	
Form:	Solid
Important information on protection of he	alth
and environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical haz	zard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:
- strong oxidants
- strong bases

• 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

## **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

• LD/LC50 values relevant for classification: Quantitative data on the toxicological effect of this product are not available.

(Contd. on page 6)

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## Trade name: MOPS

· ADR, ADN, IMDG, IATA

14.2 UN proper shipping name
 ADR, ADN, IMDG, IATA

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Components	Туре	Value	Species	
Oral LD50 >2,000 mg/kg				
Skin corrosion/irritation	l			
Causes skin irritation.	tation			
<b>Serious eye damage/irri</b> Causes serious eye irritat				
After inhalation: Irritant t		icous memb	oranes	
				ication criteria are not met
Germ cell mutagenicity				
Carcinogenicity Based o				
Reproductive toxicity Ba	ased on availa	ble data, th	e classification criter	ia are not met.
STOT-single exposure				
May cause respiratory irrit				without and want
STOT-repeated exposur Aspiration hazard Based				
<b>11.2 Information on othe</b>		uala, lite Clè	assincation criterid d	
Endocrine disrupting pr		stance is no	t listed.	
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SECTION 12: Ecolog	gical inforn	nation		
12.4 Mobility in soil No f 12.5 Results of PBT and PBT: Not applicable.	urther relevan	t informatio	nt information availal n available.	ole.
12.4 Mobility in soil No f 12.5 Results of PBT and PBT: Not applicable. vPvB: Not applicable. 12.6 Endocrine disruptin The product does not con 12.7 Other adverse effect Additional ecological in General notes: Do not allow product to re	urther relevan I vPvB assess ng properties tain substance ts formation: each ground we	it information sment es with endo ater, water o	n available. ocrine disrupting pro course or sewage sy	perties. stem.
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Void

Void

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Page 7/7

Trade name: MOPS

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· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
<sup>·</sup> 14.5 Environmental hazards:	Not applicable.
<sup>·</sup> 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk accordi	ing to
IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specification
· UN "Model Regulation":	Void

# **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Dept. Compliance

Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

\* \* Data compared to the previous version altered.

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