# according to UK REACH Regulation

# MeO-PEG(4)-SH

Revision date: 24.10.2024

Product code: PEG3470

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

# 1.1. Product identifier

MeO-PEG(4)-SH

# Further trade names

alpha-Methoxy-omega-mercapto tetra(ethylene glycol) mPEG(4)-SH, mPEG(4)-thiol

Substance name: CAS No: MeO-PEG(4)-SH 52190-55-3

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

# Use of the substance/mixture

Laboratory chemical. Manufacture of the substance.

#### Uses advised against

Do not use for private purposes (household). Restrictions on use: Pharmaceutical substance

## 1.3. Details of the supplier of the safety data sheet

# **Further Information**

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Voluntary safety information following the Safety Data Sheet format according to Regulation (EC) No. 1907/2006 (REACH)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

This substance is not classified as hazardous in accordance with GB CLP Regulation.

#### 2.2. Label elements

## **GB CLP Regulation**

#### **Precautionary statements**

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.

#### Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none (GHS/CLP criteria are not met.) Warning - substance not yet tested completely.

# 2.3. Other hazards

No information available.

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

# 3.1. Substances

#### **Chemical characterization**

alpha-Methoxy-omega-mercapto tetra(ethylene glycol)			
Sum formula:	C9H20O4S		
Molecular weight:	224,32 g/mol g/mol		

# **Relevant ingredients**

none (according to UK REACH Regulation)

according to UK REACH Regulation

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# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

In all cases of doubt, or when symptoms persist, seek medical advice.

#### After inhalation

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

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

No information available.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO2). Sand.

#### Unsuitable extinguishing media

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable. Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx).

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

# Additional information

Usual measures for fire prevention.

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

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. In case of fire: Evacuate area.

# according to UK REACH Regulation

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#### For non-emergency personnel

Do not breathe gas/fumes/vapour/spray. Avoid substance contact. Provide adequate ventilation. Keep away from sources of ignition - No smoking. Evacuate the danger area, observe emergency procedures, consult an expert. Personal protection equipment: see section 8

#### For emergency responders

Wear personal protection equipment (refer to section 8). Cover drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Stop and contain spill/release if it can be done safely.

# 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

# 6.3. Methods and material for containment and cleaning up

#### For containment

Cover drains.

Stop and contain spill/release if it can be done safely.

# For cleaning up

Universal binder/ Binder

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Clear contaminated areas thoroughly.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

Treat the recovered material as prescribed in the section on waste disposal.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

# Advice on protection against fire and explosion

Usual measures for fire prevention.

## Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Handle and store contents under inert gas. Protect from moisture. storage temperature:  $-20^{\circ}C$ 

# Hints on joint storage

No special measures are necessary.

# according to UK REACH Regulation

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# 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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

# 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls

#### Appropriate engineering controls

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

# Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye protection/face protection.

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.

# Skin protection

Use of protective clothing.

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Thermal hazards

No data available

#### Environmental exposure controls

Discharge into the environment must be avoided.

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

# 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	No data available
Odour threshold:	not determined
Melting point/freezing point:	

not determined

#### according to UK REACH Regulation

MeO-PEG(4)-SH Revision date: 24.10.2024 Product code: PEG3470 Page 5 of 8 Boiling point or initial boiling point and not determined boiling range: Flammability: not applicable Lower explosion limits: not determined not determined Upper explosion limits: Flash point: No data available Auto-ignition temperature: not determined Decomposition temperature: not determined pH-Value: not determined Viscosity / kinematic: not determined Water solubility: No data available Solubility in other solvents not determined Dissolution rate: not determined Partition coefficient n-octanol/water: not determined not determined Dispersion stability: Vapour pressure: not determined Density: not determined Relative density: No data available Bulk density: not applicable Relative vapour density: not determined Particle characteristics: not applicable 9.2. Other information Information with regard to physical hazard classes Explosive properties No data available Sustaining combustion: No data available Self-ignition temperature Solid: not applicable Gas: not applicable Oxidizing properties No data available Other safety characteristics Solvent content: No data available Solid content: not applicable Viscosity / dynamic: not determined not determined Flow time:

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No data available

# 10.2. Chemical stability

Stable under recommended storage conditions.

# 10.3. Possibility of hazardous reactions

No data available

# 10.4. Conditions to avoid

Protect from moisture. Keep away from heat.

# 10.5. Incompatible materials

Oxidizing agents, strong.

# according to UK REACH Regulation

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# 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx).

### **Further information**

In case of fire: See chapter 5.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Toxicocinetics, metabolism and distribution

# No data available

#### Acute toxicity

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

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

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

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

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable,

possible or confirmed human carcinogen by IARC.

# STOT-single exposure

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

#### STOT-repeated exposure

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

# Aspiration hazard

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

#### Specific effects in experiment on an animal

No data available

#### Additional information on tests

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

# **Practical experience**

No data available

# 11.2. Information on other hazards

#### Endocrine disrupting properties

No data available

## Further information

RTECS: No data available

To our knowledge, the chemical, physical and toxicological properties have not been extensively studied. Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

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

# 12.2. Persistence and degradability

No data available

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# 12.3. Bioaccumulative potential

No data available

# 12.4. Mobility in soil

No data available

# 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

# 12.7. Other adverse effects

Warning - substance not yet tested completely.

## Further information

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Handle contaminated packages in the same way as the substance itself.

# Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

# **SECTION 14: Transport information**

Land transport (ADR/RID) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
Inland waterways transport (ADN) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
Marine transport (IMDG) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No

#### 14.6. Special precautions for user No information available.

# 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

# EU regulatory information Information according to Directive 2012/18/EU (SEVESO III): Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

# National regulatory information

# according to UK REACH Regulation

Water hazard class (D):       3 - highly hazardous to water         5.2. Chemical safety assessment         For this substance a chemical safety assessment has not been carried out.	MeO-PEG(4)-SH						
2. 2. Chemical safety assessment         For this substance a chemical safety assessment has not been carried out.         Section 15: Other Information         ADR: Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).         IMDS: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods         IATA: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods         IATA: International Astronometry of Existing Commercial Substances         ELINCS: European International Castinge of Chemicals         UBS: Lehal doces       Colssification, Labelling and Packaging of Chemicals         UN: United Nations	Revision date: 24.10.2024	Product code: PEG3470	Page 8 of				
For this substance a chemical safety assessment has not been carried out.  ECTION 16: Other information  ADF: Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).  MDG: International Maritime Code for Dangerous Goods ATA: International Maritime Code for Dangerous Goods ATA: International Maritime Code for Dangerous Goods ATA: International Maritime Code for Dangerous Goods ELINCS: European Intro of Existing Commercial Chemical Substances ELINCS: European Intro of Notified Chemical Substances CAS: Chemical Abstracts Service LCS0: Lethal concentration, 50% LD50: Lethal concentration, 50% CDF: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals UN: United Nations CAS: Chemical Abstracts Service DME:: Derived No Effect Level DME:: Derived No Effect Concentration ATE: Accut toxicity estimate LLS0: Lethal loading, 50% ELS0: Effective Concentration 50% ECS0: Effective Concentration 50% RCS0: Refective Concentration 50	Water hazard class (D):	3 - highly hazardous to water					
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