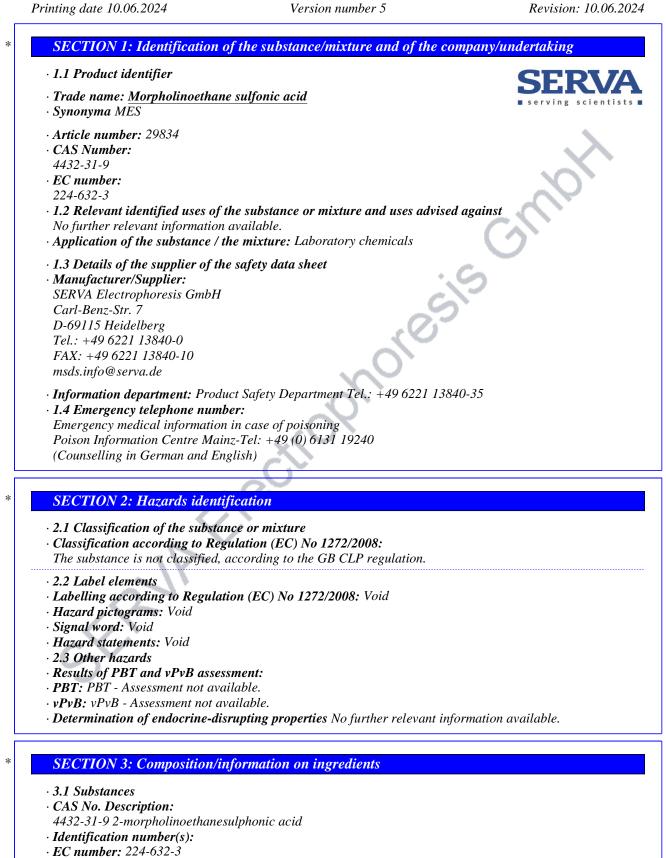
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• Description:

• Empirical formula: $C_6 H_{13} N O_4 S$

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• **MW:** 195.2

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. *After eye contact:*
- Rinse opened eye for several minutes with running water. Remove contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.
- After swallowing: Rinse out mouth. In case of complaints, consult a doctor.
- 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:
- CO_2 , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture:
- Formation of hazardous vapours and gases possible during heating or in case of fire. In case of fire, the following can be formed, but not limited to: Carbon monoxide and carbon dioxide
- Sulphur oxides (SOx)

Nitrogen oxides (NOx)

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information
- Collect contaminated fire fighting water separately. It must not enter the sewage system.

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
 Wear protective clothing.
 Ensure adequate ventilation
 Avoid contact with eyes and skin.
 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Pick up mechanically.
- 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: Ensure good ventilation/exhaustion at the workplace. No special measures required.

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Prevent formation of dust.

· Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store containers tightly closed and dry.
- 7.3 Specific end use(s): No further relevant information available.
- **SECTION 8: Exposure controls/personal protection**
- · 8.1 Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls: No further data; see section 7.
- · Individual protection measures, such as personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing
- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.
- · Breathing equipment: Suitable respiratory protective device recommended.
- Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- \cdot For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR Nitrile rubber, NBR

- · Eye/face protection: Safety glasses
- · Body protection: Protective work clothing.

*

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information:
- · Physical state:
- · Colour:
- Odour:
- Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range:
- Solid. White Recognisable Not determined. No information available

No information available

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Flammability:	No information available
Lower and upper explosion limit:	
- Lower:	No information available
· Upper:	No information available
Flash point:	No information available
Decomposition temperature:	No information available
pH:	2.5-4
Viscosity:	
Kinematic viscosity:	No information available
Dynamic viscosity:	No information available
Solubility:	v
Water at 20 °C:	185 g/l
Partition coefficient n-octanol/water (log value):	No information available
Vapour pressure:	No information available
Density and/or relative density:	v
Density:	No information available
Relative density:	No information available
Particle characteristics	No information available
9.2 Other information	
Appearance:	
Form:	Powder
Important information on protection of health and	d
environment, and on safety:	
Explosive properties:	The product is not explosive, but the formation of
	explosive dust/air mixtures is possible.
· Molecular weight	195.2 g/mol

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 further relevant information available.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: Avoid contact with oxidising agents.
- · 10.6 Hazardous decomposition products: In case of fire: see section 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 that are relevant for classification:

Dermal LD50 >2,000 mg/kg (rabbit)

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

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

• Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

· 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.

· 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.

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• Additional toxicological information:

· Repeated dose toxicity

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Repeated dose toxicity: NOAEL (oral, repeated dose, rat, OECD Test Guideline No. 422) \geq 1000 mg/kg bw/d

Reproductive toxicity: NOAEL (oral, rep. dose, rat, OECD Test Guideline No. 422) \geq 1000 mg/kg bw/d \cdot 11.2 Information on other hazards:

· Endocrine disrupting properties: No relevant information available

SECTION 12: Ecological information

- · 12.1 Toxicity:
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability: The substance is hydrolytically stable and not readily biodegradable.
- 12.3 Bioaccumulative potential: No further relevant information available.
- · 12.4 Mobility in soil: No further relevant information available.
- 12.5 Results of PBT and vPvB assessment:
- · PBT: PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects:
- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation Dispose of in accordance with official regulations.
- · Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14.1 UN number or ID number	Void	
· ADR, ADN, IMDG, IATA	voia	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class:	Void	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards		
· Marine pollutant:	No	
• 14.6 Special precautions for user	Not applicable.	

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· 14.7 Maritime transport in bulk according to IMO		
instruments	Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- · Regulated explosives precursors Substance is not listed.
- · **Regulated poisons** Substance is not listed.
- · **Reportable explosives precursors** Substance is not listed.
- · Reportable poisons Substance is not listed.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
- Substance is not listed. · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- Substance is not listed.
- · Annex II REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.
- Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- \cdot Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed.
- · National regulations:
- Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- · 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: Product Safety Department · Contact: +49 6221 13840-35 • Date of previous version: 06.09.2023 · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (UK REACH) vPvB: very persistent, very bioaccumulative substance (UK REACH) UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals GB CLP: Regulation on classification, labelling and packaging of substances and mixtures bw: body weight 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 (Contd. on page 7)

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative (Contd. of page 6)

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