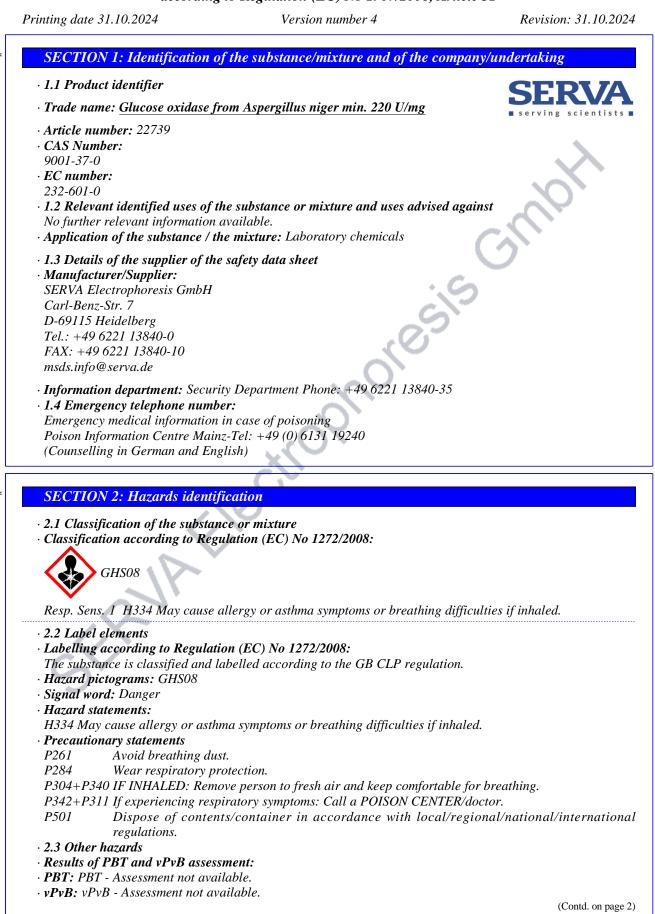
GB

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31



Printing date 31.10.2024

Version number 4

Revision: 31.10.2024

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· Determination of endocrine-disrupting properties No further relevant information available.

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

- · 3.1 Substances
- · CAS No. Description:
- 9001-37-0 Oxidase, glucose
- Identification number(s):
- EC number: 232-601-0
- · Description:
- **MW:** ca. 160000

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

- 4.1 Description of first aid measures
- · 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. Drink plenty of water and provide fresh air. Consult a doctor in case of complaints.
- 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<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- $\cdot$  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: Nitrogen oxides (NOx)
- Carbon monoxide and carbon dioxide
- 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 formation of dust.
  Do not inhale dust.
   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.

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· 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. Open and handle receptacle with care. 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. Storage temperature: -15 to -25 °C

· 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 inhalation of dust.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

#### • **Breathing equipment:** Short term filter device:

Filter P2.

• 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

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

<b>SECTION 9: Physical and chemical propertie</b>	<i>'S</i>
9.1 Information on basic physical and chemical p	roperties
· General Information:	
· Physical state:	Solid.
· Colour:	Not determined.
· Odour:	Odourless
· Odour threshold:	not determined.
• Melting point/freezing point:	No information available
· Boiling point or initial boiling point and boiling	·
range:	No information available
· 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:	No information available
· Viscosity:	
· Kinematic viscosity:	No information available
· Dynamic viscosity:	No information available
· Solubility:	
· Water:	Soluble
• Partition coefficient n-octanol/water (log value):	No information available
· Vapour pressure:	No information available
· Density and/or relative density:	
· Density:	No information available
· Relative density:	No information available
· Particle characteristics	No information available
• 9.2 Other information	
· Appearance:	
· Form:	lyophilisate
· Important information on protection of health and	
environment, and on safety:	
• Explosive properties:	The product is not explosive, but the formation of
• • •	explosive dust/air mixtures is possible.
• Molecular weight	~160,000 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 strong oxidising agents.
- 10.6 Hazardous decomposition products: In case of fire: see section 5

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### **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.
- 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:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- · 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.
- $\cdot \textit{STOT-repeated exposure: } Based on available data, the classification criteria are not met.$
- Aspiration hazard: Based on available data, the classification criteria are not met.
- 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: No further relevant information available.
- 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.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · 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		
· ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name		
· ADR, ADN, IMDG, IATA	Void	

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· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class:	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according	
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.
- 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:
- · Technical instructions (air):

Class	Share in %
Ι	80-100

- 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: 02.05.2018

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Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses	par chemin de fer (Regulations Concerning
International Transport of Dangerous Goods by Rail)	1 5 6 6
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 Res	triction of Chemicals
GB CLP: Regulation on classification, labelling and packaging of substances and mixtur	res
bw: body weight	
ADR: Accord relatif au transport international des marchandises dangereuses pa	r route (European Agreement Concerning
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)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Resp. Sens. 1: Respiratory sensitisation – Category 1	