

**Safety Data Sheet**  
**according to UK REACH (SI 2020/1577) as amended**

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

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

· **1.1 Product identifier**

· **Trade name: Sodium Azide powder**

· **Product Code:** 40-1999-01

· **CAS Number:**  
26628-22-8

· **EC number:**  
247-852-1

· **Index number:**  
011-004-00-7

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

· **Product category** PC21 Laboratory chemicals

· **Application of the substance / the mixture** Laboratory chemicals

· **Uses advised against**

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.

Processes involving the use of incompatible substances - refer to section 10.

Processes involving extreme heat use advised against.

Processes where workers who may be pregnant or breastfeeding could potentially come into direct contact with the undiluted product.

The product is strictly intended for industrial or professional use only.

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier:**

Severn Biotech Ltd.

Unit 2,

Park Lane,

Kidderminster,

Worcestershire.

DY11 6TJ

UK

Tel: 0044 1562 825286

Fax: 0044 1562 825284

email: info@severnbiotech.com

· **Further information obtainable from:** Product safety department.

· **1.4 Emergency telephone number:**

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to GB-CLP**

Acute Tox. 2      H300 Fatal if swallowed.

Acute Tox. 1      H310 Fatal in contact with skin.

Acute Tox. 2      H330 Fatal if inhaled.

STOT RE 2      H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Acute 1      H400 Very toxic to aquatic life.

(Contd. on page 2)

GB

## Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

Trade name: Sodium Azide powder

(Contd. of page 1)

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

### · 2.2 Label elements

· **Labelling according to GB-CLP** The substance is classified and labelled according to the GB CLP regulation.

### · Hazard pictograms



GHS06

GHS08

GHS09

· **Signal word** Danger

### · Hazard statements

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

### · Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P330 Rinse mouth.

P320 Specific treatment is urgent (see on this label).

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

### · Additional information:

EUH032 Contact with acids liberates very toxic gas.

### · 2.3 Other hazards

### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### · 3.1 Substances

#### · CAS No. Description

CAS: 26628-22-8 Sodium azide

#### · Identification number(s)

· **EC number:** 247-852-1

· **Index number:** 011-004-00-7

## \* SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### · General information:

Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### · After inhalation:

In case of inhalation:

- Provide fresh air.

- In case of breathing difficulties administer oxygen.

(Contd. on page 3)

## Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

**Trade name: Sodium Azide powder**

(Contd. of page 2)

- No mouth-to-mouth or mouth-to-nose resuscitation. Use respiratory bag or oxygen resuscitation apparatus.
- Do not leave patient unattended.

Keep warm (blanket). Take to a hospital as soon as possible.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

May be absorbed through the skin. Seek medical advice.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

Check for and remove any contact lenses.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Take to a hospital immediately.

· **Information for doctor:**

Antidote: 4-Dimethylaminophenol (4-DMAP)

Treatment: Symptomatic treatment and antidote administration.

Antidote: 4-Dimethylaminophenol (4-DMAP)

If ingested, irrigate the stomach.

· **4.2 Most important symptoms and effects, both acute and delayed** Blood pressure drop.

· **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.

### \* SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Extinguishing powder. Do not use water.

Dry sand

· **For safety reasons unsuitable extinguishing agents:**

Water

Foam

Carbon dioxide

· **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Formation of explosive dust/air mixtures possible.

Explosive decomposition of the product during heating / contact with fire possible.

Azides

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Decontaminate protective clothing prior to removal.

· **Additional information**

Cool endangered receptacles with water spray.

Use as little water as possible.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

— GB —

(Contd. on page 4)

**Safety Data Sheet**  
**according to UK REACH (SI 2020/1577) as amended**

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

**Trade name: Sodium Azide powder**

(Contd. of page 3)

\* **SECTION 6: Accidental release measures**

· **6.1 Personal precautions, protective equipment and emergency procedures**

- Mount respiratory protective device.
- Avoid formation of dust.
- Ensure adequate ventilation
- Wear protective equipment. Keep unprotected persons away.
- Keep ignition sources away - no smoking.

· **6.2 Environmental precautions:**

- Inform respective authorities in case of seepage into water course or sewage system.
- Do not allow to enter sewers/ surface or ground water.
- Do not allow to penetrate the ground/soil.

· **6.3 Methods and material for containment and cleaning up:**

- Pick up mechanically.
- Use vacuum cleaner equipped with High Efficiency Particulate Air(HEPA) filter.
- Vacuum cleaner should be electrically bonded and grounded to dispel static electricity.
- Send for recovery or disposal in suitable receptacles.
- Decontamination should be carried out by reaction with sodium nitrite in presence of sulfuric or nitric acid.
- Wash the area with plenty of water.

· **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**

- Prevent formation of dust.
- Ensure good ventilation/exhaustion at the workplace.
- Keep away from heat and direct sunlight.
- Open and handle receptacle with care.
- Store in cool, dry place in tightly closed receptacles.
- Do not mix with acids.
- Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.
- Whenever possible, handle in closed conditions.

· **Information about fire - and explosion protection:**

- Keep ignition sources away - Do not smoke.
- Protect from heat.
- Protect against electrostatic charges.
- Prevent impact and friction.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

- Store in a cool location.
- Prevent any seepage into the ground.
- Store only in the original receptacle.

· **Information about storage in one common storage facility:**

- Store away from water.
- Do not store together with acids.
- Do not store together with oxidising and acidic materials as well as heavy-metal compounds.

(Contd. on page 5)

## Safety Data Sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

**Trade name: Sodium Azide powder**

(Contd. of page 4)

Store away from foodstuffs.

- **Further information about storage conditions:**

Store under lock and key and with access restricted to technical experts or their assistants only.

Store in cool, dry conditions in well sealed receptacles.

Store in a banded area.

Store at 10 - 30 °C

- **Storage class:** 6.1 B

- **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:**

**CAS: 26628-22-8 Sodium azide**

WEL	Short-term value: 0.3 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup> (as NaN <sub>3</sub> ), Sk
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- **DNELs**

Oral	Long-term systemic effects	50 µg/kg bw/day (general population)
	Long-term systemic effects	50 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	140 µg/kg bw/day (worker)
	Long-term systemic effects	87 µg/m <sup>3</sup> (general population)
Inhalative	Long-term systemic effects	493 µg/m <sup>3</sup> (worker)

- **PNECs**

Freshwater	350 ng/L
Freshwater - Intermittent releases	3.5 µg/L
Marine water	15 ng/L
Marine Water - Intermittent releases	150 ng/L
Sewage Treatment Plant	30 µg/L
Sediment (freshwater)	16.7 µg/kg
Sediment (marine water)	720 µg/kg

- **Additional information:** The lists valid during the making 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.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Do not eat, drink, smoke or sniff while working.

Do not breathe dust

Take note of assigned Workplace Exposure Limits.

Ensure that eyewash stations and safety showers are close to the workstation location.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

(Contd. on page 6)

## Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

**Trade name: Sodium Azide powder**

(Contd. of page 5)

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.  
Filter ABEK-P2

· **Hand protection**



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

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**

Nitrile rubber, NBR

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.

· **Eye/face protection**



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

· **Body protection:**



Impervious protective clothing

Do not get on skin or clothing. Wear clothing and footwear that cannot be penetrated by the product. Suitable protective equipment may include: Chemical resistant boots, Chemical resistant apron, Full chemical protective suit with a hood, Chemical protective suit consisting of a jacket and trousers. The jacket should be buttoned up to the neck, sleeves sealed at the gloves, and trouser legs worn outside the boots. These precautions are required to prevent the clothing from accidentally trapping product against the skin.

· **Environmental exposure controls** Do not let product enter drains. Risk of explosion.

· **Risk management measures**

The operators shall be instructed adequately.

The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

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

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Physical state</b>	Solid
· <b>Colour:</b>	Not determined.
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	Undetermined.
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.

(Contd. on page 7)

## Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

Trade name: Sodium Azide powder

(Contd. of page 6)

· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Not determined.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	1.846 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>9.2 Other information</b>	NOTE: The physical data presented above are typical values and should not be construed as a specification.
· <b>Appearance:</b>	
· <b>Form:</b>	Not determined.
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Molecular weight</b>	65.01 g/mol
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not applicable.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Not applicable
· <b>Flammable gases</b>	Not applicable
· <b>Aerosols</b>	Not applicable
· <b>Oxidising gases</b>	Not applicable
· <b>Gases under pressure</b>	Not applicable
· <b>Flammable liquids</b>	Not applicable
· <b>Flammable solids</b>	Not applicable
· <b>Self-reactive substances and mixtures</b>	Not applicable
· <b>Pyrophoric liquids</b>	Not applicable
· <b>Pyrophoric solids</b>	Not applicable
· <b>Self-heating substances and mixtures</b>	Not applicable
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not applicable
· <b>Oxidising liquids</b>	Not applicable
· <b>Oxidising solids</b>	Not applicable
· <b>Organic peroxides</b>	Not applicable
· <b>Corrosive to metals</b>	Not applicable
· <b>Desensitised explosives</b>	Not applicable

### \* SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

(Contd. on page 8)

GB

## Safety Data Sheet

### according to UK REACH (SI 2020/1577) as amended

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

**Trade name: Sodium Azide powder**

(Contd. of page 7)

- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
There is a risk of a dust explosion if the following conditions are met:
  - The substance is given in very finely distributed form (powder, dust).
  - The substance is whirled up in sufficient quantity in the air.
  - An ignition source is present (flame, spark, electrostatic discharge, etc.)
 Risk of explosion on heating.  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Contact with acids releases explosive and highly toxic vapours/gases.  
Reacts with heavy metals to form explosive compounds.
- **10.4 Conditions to avoid**  
Heat and static discharge.  
Moisture may decompose this product and cause a violent reaction leading to fire and explosion.
- **10.5 Incompatible materials:**  
Strong acids and oxidising agents  
Heavy metals  
Halogenated compounds  
Water
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Azides

## \* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
Fatal if swallowed, in contact with skin or if inhaled.

- **LD/LC50 values relevant for classification:**

Oral	LD50	27 mg/kg (rat)
Dermal	LD50	18 mg/kg (rabbit)
Inhalative	LC50/4 h	0.054 mg/l (rat)

- **Primary irritant effect:**
- **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**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
ROUTES OF EXPOSURE: Can be absorbed into the body by ingestion, by inhalation (mist and vapour) and through the skin.  
EFFECTS OF SHORT-TERM EXPOSURE: The product is irritating to the eyes and the respiratory tract. May cause effects on the central nervous system.

(Contd. on page 9)

## Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

**Trade name: Sodium Azide powder**

(Contd. of page 8)

- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not listed.

### \* SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

EC50 (96 h)	0.348 mg/l (Algae)
EC50 (3 h)	5.6 mg/L (Bacteria)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Very toxic for aquatic organisms  
Also poisonous for fish and plankton in water bodies.  
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

### \* SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Recommended Hierarchy of Controls:
  - Minimise waste;
  - Reuse if not contaminated;
  - Recycle, if possible; or
  - Safe disposal (if all else fails).Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Contact waste processors for recycling information.  
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.  
Do not mix with other waste streams.
- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Container remains hazardous when empty. Continue to observe all precautions.  
Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

(Contd. on page 10)

GB

## Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 10.09.2025

Version number 2 (replaces version 1)






Revision: 10.09.2025

**Trade name: Sodium Azide powder**

(Contd. of page 9)

Do not mix with other waste streams.

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· 14.1 UN number or ID number</li> <li>· ADR/RID/ADN, IMDG, IATA</li> </ul>	UN1687
<ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· ADR/RID/ADN</li> <li>· IMDG, IATA</li> </ul>	UN1687 SODIUM AZIDE, ENVIRONMENTALLY HAZARDOUS SODIUM AZIDE
<ul style="list-style-type: none"> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR/RID/ADN</li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	6.1 (T5) Toxic substances. 6.1
<ul style="list-style-type: none"> <li>· IMDG</li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	6.1 Toxic substances. 6.1
<ul style="list-style-type: none"> <li>· IATA</li> </ul> <div style="display: flex; align-items: center; gap: 10px;">  </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	6.1 Toxic substances. 6.1
<ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR/RID/ADN, IMDG, IATA</li> </ul>	II
<ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> <li>· Special marking (ADR/RID/ADN):</li> </ul>	Environmentally hazardous substance, liquid No Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> <li>· Hazard identification number (Kemler code):</li> <li>· Hazchem Code:</li> <li>· EMS Number:</li> <li>· Segregation groups</li> </ul>	Warning: Toxic substances. - 2XE F-A,S-A (SGG17) Azides

(Contd. on page 11)

—GB—

## Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

Trade name: Sodium Azide powder

(Contd. of page 10)

· <b>Stowage Category</b>	A
· <b>Segregation Code</b>	SG15 Stow "separated from" class 3 SG30 Stow "away from" SGG7-heavy metals and their salts SG35 Stow "separated from" SGG1-acids
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR/RID/ADN</b>	
· <b>Limited quantities (LQ)</b>	500 g
· <b>Excepted quantities (EQ)</b>	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	500 g
· <b>Excepted quantities (EQ)</b>	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1687 SODIUM AZIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

### 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.
- **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **COMAH category**  
H1  
E1
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 20 t
- **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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

(Contd. on page 12)

— GB —

**Safety Data Sheet**  
**according to UK REACH (SI 2020/1577) as amended**

Printing date 10.09.2025

Version number 2 (replaces version 1)

Revision: 10.09.2025

**Trade name: Sodium Azide powder**

(Contd. of page 11)

· **Training hints**

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· **Department issuing SDS:** Product safety department.

· **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)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 1: Acute toxicity – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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