

Section 1. Identification

1.1 Product Identifier 2254

Product Name	SODIUM AZIDE pure
CAS Number	26628-22-8
REACH Registration No	A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.
Molecular Formula	NaN_3 =65.01

1.2 Relevant identified uses of the substance or mixture & uses advised against

Uses of Material	Chemical for industrial and laboratory use. Not suitable for domestic use.
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1.3 Supplier Vickers Laboratories Ltd



Grangefield Industrial Estate
Richardshaw Road
Pudsey
West Yorkshire
LS28 6QW
UNITED KINGDOM

Phone	44 0113 2362811
Fax	+44(0)113 2362703
Email	safety@viclabs.co.uk
Website	www.viclabs.co.uk

1.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811 (24hr) 112 (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 1 (dermal)	H310: Fatal in contact with skin.
Acute toxicity, category 2 (oral)	H300: Fatal if swallowed.
Acute toxicity, category 2 (inhalation)	H330: Fatal if inhaled.
Spec target organ tox - repeat, category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Hazard to aquatic environment, category 1	H400: Very toxic to aquatic life.
Hazard to aquatic environment, category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word	Danger
Hazard Pictograms	



Hazard Statements	Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Avoid release to the environment. Collect spillage.
Supplemental Hazard Information (EU)	Contact with acids liberates very toxic gas.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium azide	26628-22-8	247-852-1		>99%	Acute Tox. 1 (D), Acute Tox. 2 (O), Acute Tox. 2 (I), STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.
Inhalation	If exposure to toxic fumes has occurred OBTAIN IMMEDIATE MEDICAL ATTENTION.
Ingestion	If conscious give plenty of water to drink. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

4.2 Most important symptoms and effects, both acute & 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. Fire Fighting

5.1 Extinguishing media

Extinguishing Media	Use dry sand or special metal fire extinguishing powder.
Unsuitable Media	Do not use water or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Hazards	Forms explosive dust clouds. May evolve toxic fumes if involved in a fire.
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5.3 Advice for firefighters

Advice for firefighters	Fire-fighters should wear protective clothing and breathing apparatus.
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Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing dust-wear respiratory protective equipment. If contact with acid is possible, use full protective clothing and breathing apparatus. Avoid raising dust clouds- explosion risk.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of water.

Minor Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect against moisture to prevent decomposition and corrosion. Keep well separated from acids.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term (8hr TWA)	Short Term 15min period		
Sodium azide	26628-22-8	>99%	-	0.1 mg/m-3	-	0.3 mg/m-3

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits.

Hand Protection Wear gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance White crystalline powder.
Odour No specific odour.
pH 8 @ 20°C 40%
Boiling Point Not available
Melting Point 300°C
Flash Point Not applicable
Upper Flammable Limit Not applicable

Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	Can form explosive dust clouds.
Oxidising Properties	No.
Vapour Pressure	Not applicable
Relative Density	1.8460
Water Solubility	42%

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under normal conditions but decomposes above 300 C liberating toxic fumes.
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to Avoid	Avoid contact with acids.
10.5 Incompatible Materials	Contact with acids will result in formation of toxic and explosive hydrogen azide gas. Contact with heavy metals or their salts result in the formation of explosive azides.
10.6 Hazardous Decomposition Products	Decomposes to form toxic and corrosive suffocating fumes.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Contact with the solid or dust may be irritating to the eyes.
Skin	Fatal in contact with skin. May be absorbed through the skin.
LD50 Skin	500-1000 mg/Kg Rabbit
Ingestion	Fatal if swallowed.
LD50 Oral	40 mg/Kg Rat
Inhalation	Fatal if inhaled. Inhalation of dust may cause oedema with potentially serious consequences.
LD50 Inhalation	0.054-0.52 mg/L Rat
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

Section 12. Ecological

12.1 Toxicity	Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.
LC50 Algal	348 µg/L Algae (96 hours)
LC50 Crustacea	150 µg/L (48 hours)
LC50 Fish	0.68 mg/L Rainbow Trout (96 hours)
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT & vPvB assessment	Assessment not required.
12.6 Other adverse effects	None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

- Disposal Methods Dispose of to a licensed land fill site.
- Contaminated Packaging Clean out with a weak sodium hydroxide solution then wash out thoroughly with water.

Section 14. Transport Information

- 14.1 UN Number** 1687
- 14.2 Proper Shipping Name** Sodium azide
- 14.3 Transport classes**
- UN classification 6.1
- Subsidiary hazard(s) None
- Transport category 2
- ADR Hazard ID 60
- Tunnel Restriction Code D/E
- 14.4 Packing Group** II
- 14.5 Environment hazards** See section 12.
- 14.6 Special precautions for user** No special precautions required.
- 14.7 Transport in bulk** Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for substance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 1 (dermal); Acute toxicity, category 2 (oral); Acute toxicity, category 2 (inhalation); Spec target organ tox - repeat, category 2; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H300, H310, H330, H373, H410
Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary Statements P264, P270, P301+P310, P330, P273, P391
Wash thoroughly after handling. Do not eat, drink or smoke when using this product. **IF SWALLOWED:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Avoid release to the environment. Collect spillage.

Supplemental Hazard Information (EU) EUH032
Contact with acids liberates very toxic gas.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 2.1 (Supercedes revision 2.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 03 February 2023

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