SAFETY DATA SHEET

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

1.1 Product identifiers

Product name	Sodium Azide 3%
CAS number	26628-22-8
Synonyms	N/A

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

Identified uses	Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Oral Toxicity	Category 3
Specific Target Organ Toxicity (single exposure)	Category 1
Specific Target Organ Toxicity (repeated exposure)	Category 1
Short-term (Acute) Aquatic Hazard	Category 2
Long-term (Chronic) Aquatic Hazard	Category 2

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word: Danger

Hazard statements:
Toxic if swallowed.
Causes damage to organs.
Causes damage to organs through prolonged or repeated exposure.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Precautionary statements:
Prevention: Do not breathe fumes, mist, vapors, or spray.
Wash arms, hands, and face thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment.

Response: IF exposed, call a POSION CENTER or physician. Get medical attention if you feel unwell. Specific treatment (Wash areas of contact with water).

IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.

Spills: Collect spillage.

Storage: Store locked up.

Disposal: Dispose of contents in accordance with local, state, federal, and international regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	Aqua; H2O	7732-18-5	95-97%
Sodium Azide	-	26628-22-8	3-5%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled	Not expected to require first aid. If necessary, remove to fresh air.
In case of skin contact	May cause irritation. Effects may be similar to inhalation and ingestion. May cause dermatitis.
In case of eye contact	May cause irritation, redness, pain, and tearing.
If swallowed	Immediately call a POISON CENTER or physician. Dilute immediately with water or milk. Induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Toxic if swallowed. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Poison! May be fatal if swallowed or absorbed through skin. May cause irritation to the skin and eyes. May affect central nervous system, kidneys, and cardiovascular system. Contact with acid release toxic Hydrazoic Acid.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (Wash areas of contact with water). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water, dry chemical, foam, or Carbon dioxide. Water spray may be used to keep fire-exposed containers cool.
Unsuitable extinguishing media	No information available.

5.2 Specific hazards arising from the substance or mixture

Improper disposal down sink drains can cause Sodium Azide to react with Copper and Lead pipes to form highly explosive Lead Azide and Copper Azide. Plumbers can then accidentally detonate these compounds.

5.3 Special protective equipment and precautions for firefighters

Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

5.4 Further information

Flash Point	No information available.

Autoignition Temperature No information available.

Explosion limits

Upper No data available.

Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

6.2 Environmental precautions

Do not flush to sewer.

6.3 Methods and materials for containment and cleaning up

Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Do not mix with acids. Contact with acid generates toxic Hydrazoic Acid fumes.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store locked up. Protect from freezing and physical damage.

Incompatibilities

Acids, metals, Copper, Lead, Brass, solder (in plumbing systems), Benzoyl Chloride and Potassium Hydroxide, Bromine, Carbon Disulfide.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. ACGIH Threshold Limit Values

Component	Type	Value
Sodium Azide	Ceiling	0.29 mg/m³

Biological occupational exposure limits
No information available.

8.2 Exposure controls

Appropriate engineering controls
No specific controls are needed. Normal room ventilation is adequate.

Personal protective equipment

Eye/face protection
Safety glasses or goggles.

Skin protection
Chemical resistant gloves.

Body Protection
Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection
Normal room ventilation is adequate.

Control of environmental exposure
No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Data not available
Odor Threshold	Data not available
pH	Alkaline
Melting Point/Range	Approximately 0°C
Boiling Point/Range	Approximately 100°C
Evaporation Rate	Data not available

Flammability (solid)	Not applicable
Flammability or explosive limit	Data not available
Upper	
Lower	
Vapor Pressure	Data not available
Vapor Density	Data not available
Density	Data not available
Solubility	Miscible
Partition coefficient; n-octanol/water	Data not available
Autoignition Temp	Data not available
Decomposition Temp	Data not available
Viscosity	Data not available
Molecular Formula	NaN3
Molecular Weight	65.010 g/mol
VOC Content(%)	Data not available
Oxidizing properties	Data not available

9.2 Other safety information
No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
No information available.

10.2 Chemical stability
Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions
Reacts with water to form toxic Hydrazoic Acid.

10.4 Conditions to avoid
Incompatible materials.

10.5 Incompatible materials
Acids, metals, Copper, Lead, Brass, solder (in plumbing systems), Benzoyl Chloride and Potassium Hydroxide, Bromine, Carbon Disulfide.

10.6 Hazardous decomposition products
Will not occur.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium azide	27 mg/kg (Rat)	20 mg/kg (Rabbit)	-

Skin corrosion/irritation
No information available.

Serious eye damage/eye irritation
No information available.

Respiratory or skin sensitization
No information available.

Germ cell mutagenicity
No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sodium azide	26628-22-8	Not listed	Not listed	Not listed	Not listed	Not listed

Specific target organ toxicity - single exposure
Causes damage to organs.

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Reproductive toxicity
No information available.

Chronic effects
No information available.

11.2 Additional Information
No information available.

SECTION 12: Ecological information

12.1 Toxicity
Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal, and international regulations.

12.2 Persistence and degradability
No information available.

12.3 Bio accumulative potential
No information available.

12.4 Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment
No information available.

12.6 Endocrine disrupting properties
No information available.

12.7 Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-no	UN3287
Proper Shipping Name	Toxic Liquid, Inorganic, n.o.s.
Hazard Class	6.1
Packing Group	III

IMDG

UN-no	UN3287
Proper Shipping Name	Toxic Liquid, Inorganic, n.o.s.
Hazard Class	6.1
Packing Group	III

IATA

UN-no	UN3287
Proper Shipping Name	Toxic Liquid, Inorganic, n.o.s.
Hazard Class	6.1
Packing Group	III

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, Sodium azide (CAS #26628-22-8), RQ: 1000 lb.

SARA 304 Emergency release notification

Listed, Sodium azide (CAS #26628-22-8), RQ: 1000 lb.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Listed, Sodium azide (CAS #26628-22-8), TPQ: 500 lb.

SARA 311/312 Hazardous

See Section 2 for more information.

SARA 313 (TRI reporting)

Listed, Sodium azide (CAS #26628-22-8).

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Listed, Sodium azide (CAS #26628-22-8).

US. New Jersey Worker and Community Right-to-Know Act

Listed, Sodium azide (CAS #26628-22-8).

US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Sodium azide (CAS #26628-22-8).

California Proposition 65

Not listed.

SECTION 16: Other information

Issue date: 11/06/2024

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.