

Safety Data Sheet	Issue no.: 7	Issue Date: 17.09.25	Page 1 of 5	SDS 6
ALKALINE IODIDE-AZIDE SOLUTION				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:

Alkaline iodide-azide solution.

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

To be used as a sample preservative for analytical testing.

1.3. Details of the supplier of the safety data sheet:



ALS Laboratories (UK) Limited

Torrington Avenue,
Coventry, CV4 9GU

1.4. Emergency telephone number

T: +44 (0)24 7642 1213

F: +44 (0)24 7685 6575

Section 2 – Hazards Identification

2.1. Classification of the substance or mixture

Skin and eye corrosion (Category 1A), H314

2.2. Label elements

Pictograms



Signal word: Danger.

Hazard statement(s)

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Safety Data Sheet	Issue no.: 7	Issue Date: 17.09.25	Page 2 of 5	SDS 6
ALKALINE IODIDE-AZIDE SOLUTION				

Supplemental Hazard Statements:
None.

Reduced labelling for packages where contents do not exceed 125ml.

Pictograms



Signal word: Danger.

2.3. Other hazards - None.

Section 3 – Composition, Information on Ingredients

3.2. Mixtures

Component	Hazards	Concentration
Sodium azide	H300, H310, H330, H373, H400, H410.	0.104%
Sodium hydroxide	H290, H314, H318.	16%
Sodium iodide	H315, H319, H372, H400.	36%
Water	None.	47.986%

Section 4 – First Aid Measures

4.1. Description of first aid measures

Inhalation: Remove to fresh air and rest. After a significant exposure call for medical assistance immediately.

Ingestion: Do not induce vomiting. Give plenty of water in sips. Get Immediate medical attention.

Eye Contact - Irrigate using eyewash & get immediate medical attention.

Skin Contact - Rinse with water & get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

Safety Data Sheet	Issue no.: 7	Issue Date: 17.09.25	Page 3 of 5	SDS 6
ALKALINE IODIDE-AZIDE SOLUTION				

Section 5 – Fire Fighting Measures

5.1. Extinguishing media: No data available.

5.2. Special hazards arising from the substance or mixture: TOXIC FUMES ARE PRODUCED WHEN SUBSTANCE IS INVOLVED IN A FIRE

5.3. Advice for firefighters: No data available.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures: Protect skin and eyes from spillages.

6.2. Environmental precautions: Prevent spills from entering waterways and sewers.

6.3. Methods and materials for cleaning up: Use a suitable absorbent. Use neutralizing agents if available. Collect into a container, close lid. Dispose as hazardous waste.

6.4. Reference to other sections. See suitable PPE in section 8.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Avoid contact with skin and eyes.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Do not store with acids.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 – Exposure Controls, Personal Protection

8.1. Control parameters: Under EH40 (UK).

Sodium hydroxide 2mg/m³ 15m STEL WEL

Sodium azide 0.1mg/m³ 8hTWA 0.3mg/m³ 15m STEL WEL

8.2. Exposure controls: Eyes: Wear chemical splash goggles and/or face shield. Skin: Wear appropriate chemical resistant gloves, apron, and/or clothing. Clothing: Wear appropriate clothing to prevent skin exposure.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Specific Gravity: Approximately 1.7 - 1.8

Vapour Pressure: Not Applicable.

Safety Data Sheet	Issue no.: 7	Issue Date: 17.09.25	Page 4 of 5	SDS 6
ALKALINE IODIDE-AZIDE SOLUTION				

Solubility in Water: Infinite
Melting Point(°C): Not Available.
Odour: Odourless
Boiling Point(°C): Approximately 104
Appearance: Clear to turbid liquid
pH: > 13

9.2. Other information

Section 10 – Stability and Reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

Hazardous Polymerization: Has not been reported.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Acids, organic halogen compounds, metals such as aluminum, tin and zinc.

10.6. Hazardous decomposition products

Sodium Oxide, decomposition by reaction with certain metals releases flammable and explosive Hydrogen gas.

Section 11 – Toxicological Information

11.1. Information on toxicological effects:

LD50, Oral, Rat: (Sodium Azide) 27 mg/kg, (Sodium Iodide) 4340 mg/kg, details of toxic effects not reported other than lethal dose value . Irritation data: skin, rabbit: 500 mg/24H severe; eye, rabbit: 50 mg/24H severe. Investigated as a mutagen (Sodium Azide and Sodium Hydroxide).

Section 12 – Ecological Information

12.1. Toxicity: Sodium Hydroxide has high acute and chronic toxicity to aquatic life. The toxicity is influenced by the hardness and alkalinity of the receiving water. Insufficient data are available to evaluate the short and long term effects to plants, birds and land animals. Sodium Azide is expected to be very toxic to aquatic life.

12.2. Persistence and degradability: Sodium Azide is not expected to biodegrade; is expected to leach into groundwater; and may be moderately degraded by photolysis.

12.3. Bioaccumulative potential: Sodium Hydroxide is not expected to accumulate in the edible tissues of aquatic life that are normally consumed by humans.

12.4. Mobility in soil: No data available.

Safety Data Sheet	Issue no.: 7	Issue Date: 17.09.25	Page 5 of 5	SDS 6
ALKALINE IODIDE-AZIDE SOLUTION				

12.5. Results of PBT and vPvB assessment: No data available.

12.6. Other adverse effects: No data available.

Section 13 – Disposal Considerations

13.1. Waste treatment methods

Reuse or reprocess if possible. Do not dump into any sewers, on the ground, or into any body of water. Any disposal practice must be in compliance with regulations (contact environmental agency for specific rules). Waste characterisation and compliance with applicable laws are the responsibility of the waste generator.

Section 14 – Transport Information

14.1. UN number: UN 1824.

14.2. UN proper shipping name: Sodium hydroxide solution.

14.3. Transport hazard class(es): 8.

14.4. Packing group: III.

14.5. Environmental hazards: No.

14.6. Special precautions for user: As per section 7.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

CDG (Carriage of Dangerous Goods) Regulations

CLP (Chemicals, Labelling and Packaging) Regulations.

CoSHH (Control of Substances Hazardous to Health) regulations

Hazardous Waste Regulations

PPE Regulations

Workplace Exposure Limits EH40

15.2. Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16 – Other Information

16.1 Other information

Written by Paul Talbot.

16.2. Date of the latest revision of the SDS

See document header.