



## MATERIAL SAFETY DATA SHEET

### Sodium azide

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
<b>1.1</b>	<b>Product identifiers</b>		
	Product name	:	Sodium azide
	Brand	:	LABORT
	CAS-No.	:	26628-22-8
<b>1.2</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>		
	Identified uses	:	Laboratory chemicals, Manufacture of substances
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>		
	<b>LABORT FINE CHEM PVT LTD.</b> 703-704 ICON BUSINESS CENTRE, OPP. CENTRAL MALL, NR. VALENTINE CINEMA, DUMAS ROAD, SURAT - 395007, (GUJARAT), INDIA.  <b>PH:</b> 0091-261-2725761; 2725388 <b>FAX:</b> 0091-261-2725388  <b>E MAIL:</b> <a href="mailto:info@laboratorychemical.net">info@laboratorychemical.net</a> <b>WEBSITE:</b> <a href="http://www.laboratorychemical.net">www.laboratorychemical.net</a>		
<b>1.4</b>	<b>Emergency telephone number</b>		
	Emergency Phone #	:	<b>091-261-2725388</b>
SECTION 2: Hazards identification			
<b>2.1</b>	<b>Classification of the substance or mixture</b>		
	<b>Classification according to Regulation (EC) No 1272/2008</b> Acute toxicity, Oral (Category 2), H300 Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 1), H310 Specific target organ toxicity - repeated exposure, Oral (Category 2), Brain, H373 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410		
<b>2.2</b>	<b>Label elements</b>		
	<b>Labelling according Regulation (EC) No 1272/2008</b>		
	Pictogram	:	
	Signal word	:	Danger
	<b>Hazard statement(s)</b>		
	H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled.		

	H373 May cause damage to organs (Brain) through prolonged or repeated exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects.		
	Precautionary statement(s)		
	P262 Do not get in eyes, on skin, or on clothing. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing. P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.		
	Supplemental Hazard statements		
	EUH032 Contact with acids liberates very toxic gas.		
2.3	Other hazards		
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides., Rapidly absorbed through skin.		
SECTION 3: Composition/information on ingredients			
3.1	Substances		
	Formula	:	N3Na
	Molecular weight	:	65,01 g/mol
	CAS-No.	:	26628-22-8
	EC-No.	:	247-852-1
	Component	Classification	Concentration
	Sodium azide CAS-No. EC-No. Index-No. 75-75-2 200-898-6 607-145-00-4	Acute Tox. 2; Acute Tox. 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H300, H330, H310, H373, H400, H410 M-Factor - Aquatic Acute: 1 M-Factor - Aquatic Chronic: 1	<= 100 %
SECTION 4: First aid measures			
4.1	Description of first aid measures		
	General advice Consult a physician. Show this material safety data sheet to the doctor in attendance.  If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  In case of skin contact Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.  In case of eye contact Flush eyes with water as a precaution.  If swallowed		

	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2	<b>Most important symptoms and effects, both acute and delayed</b> The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3	<b>Indication of any immediate medical attention and special treatment needed</b> No data available
<b>SECTION 5: Firefighting measures</b>	
5.1	<b>Extinguishing media</b> <b>Suitable extinguishing media</b> Dry powder Dry sand
5.2	<b>Special hazards arising from the substance or mixture</b> Sodium oxides Combustible.
5.3	<b>Advice for firefighters</b> Wear self-contained breathing apparatus for firefighting if necessary.
5.4	<b>Further information</b> No data available
<b>SECTION 6: Accidental release measures</b>	
6.1	<b>Personal precautions, protective equipment and emergency procedures</b> Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
6.2	<b>Environmental precautions</b> Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3	<b>Methods and materials for containment and cleaning up</b> Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.
6.4	<b>Reference to other sections</b> For disposal see section 13.
<b>SECTION 7: Handling and storage</b>	
7.1	<b>Precautions for safe handling</b> Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
7.2	<b>Conditions for safe storage, including any incompatibilities</b> Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Never allow product to get in contact with water during storage. Do not store near acids. Recommended storage temperature: 15 - 25°C
7.3	<b>Specific end use(s)</b> Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
<b>SECTION 8: Exposure controls/personal protection</b>	
8.1	<b>Control parameters</b>
	<b>Ingredients with workplace control parameters</b>
8.2	<b>Exposure control</b>
	<b>Appropriate engineering controls</b> Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.  <b>Personal protective equipment</b>  <b>Eye/face protection</b>

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

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

9.1	Information on basic physical and chemical properties	
	Appearance Form	Form: solid
	Odour	odorless
	Odour Threshold	No data available
	pH	10,0 at 65,0 g/l at 25,0 °C
	Melting point/freezing point	Melting point/range: 370 - 425 °C - ASTM E 537-76 - Decomposition
	Initial boiling point and boiling range	300 °C - (rigorous decomposition)
	Flash point	300,0 °C - open cup
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	No data available
	Vapour pressure	0,01 hPa at 20,0 °C
	Vapour density	No data available

	Relative density	1,85 g/cm <sup>3</sup> at 20,0 °C
	Water solubility	408 g/l at 20 °C
	Partition coefficient: noctanol/water	Not applicable for inorganic substances
	Auto-ignition temperature	309 °C - Relative self-ignition temperature for solids
	Decomposition temperature	370 - 425 °C, 0,8 kJ/kg -
	Viscosity	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available
<b>9.2</b>	<b>Other safety information</b>	No data available
<b>SECTION 10: Stability and reactivity</b>		
<b>10.1</b>	<b>Reactivity</b> Contact with acids liberates very toxic gas.	
<b>10.2</b>	<b>Chemical stability</b> Stable under recommended storage conditions.	
<b>10.3</b>	<b>Possibility of hazardous reactions</b> No data available	
<b>10.4</b>	<b>Conditions to avoid</b> An explosion occurred when a mixture of sodium azide, methylene chloride, dimethyl sulfoxide, and sulfuric acid were being concentrated on a rotary evaporator. Strong heating (decomposition). Exposure to moisture.	
<b>10.5</b>	<b>Incompatible materials</b> No data available	
<b>10.6</b>	<b>Hazardous decomposition products</b> Hazardous decomposition products formed under fire conditions. - Sodium oxides Other decomposition products - No data available In the event of fire: see section 5	
<b>SECTION 11: Toxicological information</b>		
<b>11.1</b>	<b>Information on toxicological effects</b>  <b>Acute toxicity</b> LD50 Oral - Rat - 27 mg/kg Remarks: (RTECS) LC50 Inhalation - Rat - male and female - 4 h - 0,054 - 0,52 mg/l (US-EPA) LD50 Dermal - Rabbit - 20 mg/kg Remarks: (RTECS)  <b>Skin corrosion/irritation</b> Skin - In vitro study Result: No skin irritation (OECD Test Guideline 439)  <b>Serious eye damage/eye irritation</b> Eyes - Bovine cornea Result: No eye irritation - 4 h (OECD Test Guideline 437)  <b>Respiratory or skin sensitization</b> Local lymph node assay (LLNA) - Mouse Result: negative	

(OECD Test Guideline 429)

**Germ cell mutagenicity**

No data available

Mutagenicity (mammal cell test): chromosome aberration.

Chinese hamster ovary cells

Result: negative

unscheduled DNA synthesis assay

Chinese hamster lung cells

Result: negative

sister chromatid exchange assay

Chinese hamster ovary cells

Result: negative

**Carcinogenicity**

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

Oral - May cause damage to organs through prolonged or repeated exposure. – Brain

**Aspiration hazard**

No data available

**Additional Information**

RTECS: VY8050000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Nausea, Headache, Vomiting, Laboratory experiments in animals have shown sodium azide to produce a profound hypotensive effect, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12: Ecological information**

<b>12.1</b>	<b>Toxicity</b>	
	Toxicity to fish	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 2,84 mg/l - 96 h (OECD Test Guideline 203)
	Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata - 0,35 mg/l - 96 h (OECD Test Guideline 201)
	Toxicity to bacteria	--
<b>12.2</b>	<b>Persistence and degradability</b>	
	The methods for determining the biological degradability are not applicable to inorganic substances.	
<b>12.3</b>	<b>Bioaccumulative potential</b>	
	No data available.	
<b>12.4</b>	<b>Mobility in soil</b>	
	No data available	
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	

12.6	<b>Other adverse effects</b> Very toxic to aquatic life with long lasting effects. No data available		
SECTION 13: Disposal considerations			
13.1	<b>Waste treatment methods</b>		
	<b>Product</b> Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.  <b>Contaminated packaging</b> Dispose of as unused product.		
SECTION 14: Transport information			
14.1	<b>UN number</b>		
	ADR/RID: 1687	IMDG: 1687	IATA: 1687
14.2	<b>UN proper shipping name</b>		
	ADR/RID: SODIUM AZIDE IMDG: SODIUM AZIDE IATA: Sodium azide		
14.3	<b>Transport hazard class(es)</b>		
	ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1
14.4	<b>Packaging group</b>		
	ADR/RID: II	IMDG: II	IATA: II
14.5	<b>Environmental hazards</b>		
	ADR/RID: yes	IMDG Marine pollutant: yes	IATA: no
14.6	<b>Special precautions for user</b> No data available		
SECTION 15: Regulatory information			
15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.		
15.2	<b>Chemical Safety Assessment</b> For this product a chemical safety assessment was not carried out		
SECTION 16: Other information			
	<b>Further information</b> LABORT FINE CHEM PVT LTD. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. LABORT FINE CHEM PVT LTD. Makes no representations or warranties, either express or implied, including without limitation any warranties or merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, LABORT FINE CHEM PVT LTD. will not be responsible for damages resulting from use of or reliance upon this information.  Revised on: 29/07/20		

