

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name:** SODIUM AZIDE 10% SOLUTION

**CAS number:** 6628-22-8

**EINECS number:** 247-852-1

**Product code:** NJK630/NJK63A

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

**Use of substance / mixture:** PC19: Intermediate. PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents. PC21: Laboratory chemicals. PROC1: Use in closed process, no likelihood of exposure PROC5: Mixing or blending in batch processes for formulation of preparations\* and articles (multistage and/or significant contact) PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC15: Use as laboratory reagent ERC1: Manufacture of substances ERC2: Formulation of preparations\* ERC4: Industrial use of processing aids in processes and products, not becoming part of articles ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates) ERC6b: Industrial use of reactive processing aids ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8d: Wide dispersive outdoor use of processing aids in open systems

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

**Company name:** Interchim

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03103 Montluçon cedex

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**Tel:** 00 33 (0)470038855

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**1.4. Emergency telephone number**

**Section 2: Hazards identification**

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

**Classification under CLP:** Acute Tox. 3: H301; -: EUH032; STOT RE 2: H373; Acute Tox. 2: H310; Aquatic Chronic 2: H411; Acute Tox. 2: H300; Aquatic Chronic 1: H410

**Most important adverse effects:** Toxic if swallowed. Contact with acids liberates very toxic gas. May cause damage to organs (brain) through prolonged or repeated exposure (if swallowed). Fatal in contact with skin. Toxic to aquatic life with long lasting effects. Fatal if swallowed. Very toxic to aquatic life with long lasting effects.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H301: Toxic if swallowed.  
EUH032: Contact with acids liberates very toxic gas.  
H373: May cause damage to organs (brain) through prolonged or repeated exposure (if swallowed).  
H310: Fatal in contact with skin.  
H411: Toxic to aquatic life with long lasting effects.  
H300: Fatal if swallowed.  
H410: Very toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS06: Skull and crossbones  
GHS08: Health hazard  
GHS09: Environmental



**Precautionary statements:** P101: If medical advice is needed, have product container or label at hand.  
P220: Keep away from clothing and other combustible materials.  
P102: Keep out of reach of children.  
P103: Read label before use.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P273: Avoid release to the environment.  
P270: Do not eat, drink or smoke when using this product.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

**2.3. Other hazards**

**PBT:** This product is not identified as a PBT/vPvB substance.

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**Section 3: Composition/information on ingredients**

**3.1. Substances**

**Chemical identity:** SODIUM AZIDE 10% SOLUTION

**CAS number:** 6628-22-8

**EINECS number:** 247-852-1

**Contains:** An aqueous solution of sodium azide 10-25%

**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** DO NOT DELAY! Wash immediately with plenty of soap and water. If skin irritation continues, consult a doctor. MAY BE ABSORBED!

**Eye contact:** DO NOT DELAY! Check for and remove any contact lenses.

**Ingestion:** DO NOT DELAY! Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately. If unconscious and breathing is OK, place in the recovery position. Never give anything by mouth to an unconscious person Treatment with methaemoglobin forming agents (4-DMAP).

**Inhalation:** In case of unconsciousness place patient stably in side position for transportation. If breathing is irregular or stopped, administer artificial respiration - ventilation with Ambu bag or ventilator. As soon as possible treatment with corticoid aerosol (spray).  
In the case of unconsciousness: - Treatment with methaemoglobin forming agents (4-DMAP).  
- If there is a risk of loss of consciousness, place and transport affected person in the recovery position

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

**Skin contact:** No irritant effect.

**Eye contact:** No irritating effect

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

**Immediate / special treatment:** Treatment: Symptomatic treatment and antidote administration.

Antidote: 4-Dimethylaminophenol (4-DMAP)

If ingested, irrigate the stomach.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

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

**Exposure hazards:** Solids resulting from evaporation of water component:

- Can form explosive mixtures formed with air.
- Ignition possible by hot surfaces, sparks or nak

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ed flames. - Explosion/explosive decomposition of the product on heating/contact with fire probably will take place causing bursting of the container - In case of fire or overheating toxic/harmful vapours may be liberated

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray.

**Section 6: Accidental release measures**

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

**Personal precautions:** Ensure adequate ventilation. Keep ignition sources away - no smoking. Mount respiratory protective device.

**6.2. Environmental precautions**

**Environmental precautions:** Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Inform respective authorities in case of seepage in to water course or sewage system.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Do not use combustible materials such as paper towels to clean up spills. Decontamination of sodium azide or its solutions should be carried out by reaction with sodium nitrite in presence of sulfuric or nitric acid. Transfer to a suitable container. Refer to section 13 of SDS for suitable method of disposal. Ensure adequate ventilation. Absorb into dry earth or sand. Use containers made of stainless steel, glass or plastic.

**6.4. Reference to other sections**

**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 informati

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Ensure there is exhaust ventilation of the area. Keep away from heat and direct sunlight. Store in cool, dry place in tightly closed receptacles. Do not mix with acids. Avoid direct contact (skin contact, ingestion and/or inhalation of fume/mist/dust) with the product. Ensure good ventilation/exhaustion at the workplace. The occupational exposure limit value should not be exceeded during any part of the working exposure

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

**Storage conditions:** Store in a cool, well ventilated area. Keep away from direct sunlight. Store away from foodstuffs.  
Do not store together with acids.  
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.  
Store in a banded area.  
Keep container tightly sealed.  
Protect from frost.

**Suitable packaging:** Only use containers specifically permitted for the substance/product. Stainless steel.  
Glass. Plastic Unsuitable materials for container/equipment: heavy metals.

**7.3. Specific end use(s)**

**Specific end use(s):** No data available.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	0.1 mg/m <sup>3</sup>	0.3 mg/m <sup>3</sup>	-	-

**DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Pregnant women should strictly avoid inhalation or skin contact. Do not eat, drink, smoke or sniff while working.  
Do not inhale gases / fumes / aerosols. Take note of assigned Workplace Exposure Limits. A safe system of work must be formulated and followed to ensure that workers who may be pregnant or breastfeeding do not come into direct contact with the product. 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. Ensure that eyewash stations and safety showers are close to the workstation location. Depending on the degree of exposure, periodic medical examination is suggested.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work

**Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Hand protection:** Protective gloves. Butyl gloves. Rubber gloves.

**Eye protection:** Tightly fitting safety goggles.

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**Skin protection:** Impermeable protective clothing. Rubber boots. Plastic boots. Rubber apron.

**Section 9: Physical and chemical properties**

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

**State:** Fluid

**Colour:** Clear

**Odour:** Characteristic odour

**Solubility in water:** Miscible

**Boiling point/range°C:** ~100°C

**Melting point/range°C:** No data available.

**Flash point°C:** No data available.

**Vapour pressure:** 23 hPa at 20°C

**Relative density:** 1.1 g/cm<sup>3</sup> at 20°C

**pH:** ~10

**9.2. Other information**

**Other information:** No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**10.2. Chemical stability**

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Contact with acids releases explosive and high toxic vapours/gases. Forms explosive compound in contact with copper.  
Forms explosive azides in contact with heavy metals  
Solids resulting from evaporation of water component may explode on heating above melting point, especially on rapid heating. This generates fire and explosion hazard. The product is a weak base.  
Reacts with copper, lead, silver, mercury and carbon disulfide. This produces particularly shock-sensitive compounds. Reacts with acids. This produces toxic and explosive hydrogen azide.  
Intense reaction with nitrates.

**10.4. Conditions to avoid**

**10.5. Incompatible materials**

**Materials to avoid:** Strong acids. Strong oxidising agents. Non-ferrous metals, heavy metals. Acids, heavy metals and their salts (e.g. copper, lead), sulphur carbon, dimethylsulphate, halogenated hydrocarbon, water, dichloromethane, carbon disulphide, nitrates.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrazoic acid under acid conditions. Impact-sensitive/explosive azides in contact with

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heavy metals and their compounds.

Liberation of toxic explodable gases in contact with acids (hydrogen azides)

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicity values:**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	27	mg/kg
DERMAL	RBT	LD50	20	mg/kg
VAPOURS	RAT	4H LC50	1.853	mg/l

**Symptoms / routes of exposure**

**Skin contact:** No irritant effect.

**Eye contact:** No irritating effect

**Other information:** Routes of exposure: The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

Effects of short-term exposure: The substance is irritating to the eyes, skin and respiratory tract.

Exposure slightly above the WEL could cause effects on the nervous system. The product shows the following dangers according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version:

Very toxic

Regular medical checks recommended for relevant workers

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:**

Species	Test	Value	Units
Daphnia magna	48H EC50	4.2	MG/KG

**12.2. Persistence and degradability**

**Persistence and degradability:** No data available.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

**12.4. Mobility in soil**

**Mobility:** No data available.

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**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects**

**Other adverse effects:** Toxic to aquatic organisms. 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.

Also poisonous for fish and plankton in water bodies.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** 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.

**Disposal of packaging:** Container remains hazardous when empty. Continue to observe all precautions. Do not mix with other waste streams.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN3287

**14.2. UN proper shipping name**

(SODIUM AZIDE)

**14.3. Transport hazard class(es)**

**Transport class:** 6.1

**14.4. Packing group**

**Packing group:** III

**14.5. Environmental hazards**

**Environmentally hazardous:** No

**Marine pollutant:** \* Yes

**14.6. Special precautions for user**

**Special precautions:** \* Warning: Toxic substances.

**Tunnel code:** E

**Transport category:** 2

**IMDG seg. group:** AZIDES

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**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

**Transport in bulk:** Not applicable.

**Section 15: Regulatory information**

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

**15.2. Chemical Safety Assessment**

**Section 16: Other information**

**Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** EUH032: Contact with acids liberates very toxic gas.

H300: Fatal if swallowed.

H301: Toxic if swallowed.

H310: Fatal in contact with skin.

H373: May cause damage to organs ({{{0}}|message=<or state all organs affected, if known>||filter=(\_)?ORGAN\_.+}}}) through prolonged or repeated exposure ({{{1}}|message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>||filter=(\_)?EXP\_ROUTE\_.+}}}).

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.