Material Safety Data Sheet (MSDS)

Sodium Azide (≤0.1%)

I. Product And Company Identification:
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II. Hazard Identification:
Classification of The Substance Or Mixture According to Regulation (EC) No 1272/2008 [EU-GHS/CLP]:
Acute toxicity, Oral (Category 2)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)
Label Elements According Regulation (EC) No 1272/2008 [CLP]:
Pictogram

Signal word Danger
Hazard statement(s)
H300 Fatal if swallowed.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P501 Dispose of contents/container to an approved waste disposal plant.
Other hazards: Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides., Rapidly absorbed through skin.

III. Composition/Information on Ingredients:
Chemical Name: Sodium azide
Chemical Concentration: ≤0.1% (w/v)
Formula: N₃Na
Molecular Weight: 65.01 g/mol
CAS Number: 26628-22-8
EEC Number: 247-852-1

IV. First Aid Measures:
Inhalation: Remove from exposure, rest and keep warm. In severe cases, seek medical advice.
Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. Seek medical advice.
Skin Exposure: Wash skin thoroughly with water. Remove contaminated clothing and wash before re-use. In severe cases, obtain medical attention.
Eye Exposure: Irrigate thoroughly with water for at least 10 minutes. Seek medical advice.

V. Fire Fighting Measures:
Fire Extinguishing Media: Dry powder
Specific Hazards Arising from The Chemical: Sodium oxides
Firefighting: Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

VI. Accidental Release Measures:
Wear appropriate protective clothing. Inform others to keep a safe distance. Spread soda ash liberally over spillage. If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with water.

VII. Handling And Storage:
Precautions For Safe Handling: Avoid prolonged contact with copper or lead, especially in drainage systems or mercury and other heavy metals which may result in the formation of
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explosive azides. Under no circumstances eat, drink or smoke while handling this material. Wash hands thoroughly after working with this material. Contaminated clothing should be removed and washed before re-use. Conditions For Safe Storage: Store at 4°C. Keep container closed and protected from direct sunlight and moisture. Store away from combustible materials.

VIII. Exposure Controls/Personal:
Workplace Controls: Maintain adequate ventilation, eye wash and quick-drench facilities in work area.
Personal Protective Equipment:
Respiratory Protection: Dust respirator
Hand Protection: Chemical resistant gloves and chemical safety glasses
Eye Protection: Goggles or face shield
Skin And Body Protection: Lab coat

IX. Physical And Chemical Properties:
Physical State: Solid.
Color: White.
Odor: Odorless.
Melting Point: 275°C.
Vapour Pressure: 0.01 hPa at 20 °C.
Solubility in Water: 65 g/l at 20 °C.

X. Stability and Reactivity:
Stability: Stable unless heated.
Conditions to Avoid: Slow reaction at ambient temperature unless water contains dissolved carbon dioxide. Decomposes violently with bromine or chromyl chloride.
Materials to Avoid: Contact with acids liberates highly toxic gas: forms readily detonable salts with many metals, particularly heavy metals.

XI. Toxicological Information:
Acute Toxicity:
LC50 Inhalation - rat - 37 mg/m3
LD50 Dermal - rabbit - 20 mg/kg
Signs and Symptoms of Exposure: Cardiovascular disorders, NS disorders, diarrhea, tiredness. Serious Eye Damage/Eye.

XII. Ecological Information:
Biological Effects: Fish L. macrochirus toxic from 1.5ppm upwards in 24h.
Approximate Acute Toxicity for Lower Organisms: 5mg/l
Approximate Toxicity for Cold Blooded Animals: 1mg/l (values stated for sodium azide).

XIII. Disposal Considerations:
Chemical residues are generally classified as special waste, and as much covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before disposal.

XIV. Transport Information:
UN-No: 1687
ADR/RID: 6.1,42'(b)
IMO: 6.1/1687
IMDG class: 6.1
IATA: 1687
Packaging group: II
Correct technical name: Sodium Azide

XV. Regulatory Information:
No data available.

XVI. Other Information:
The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. GeneTex International Corp. shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.