

## Material Safety Datasheet for Sodium Azide (NaN<sub>3</sub>) in OAEB Antibodies

### Identification of the substance / preparation and of the company / undertaking

<b>Product name</b>	Goat Anti-Fumarase / FH Antibody
<b>Catalog Number</b>	OAEB02064
<b>Preparation</b>	Reconstituted with water / buffer at a concentration of no greater than 0.02%.
<b>Supplier identification</b>	<b>Aviva Systems Biology Corporation</b> 10211 Pacific Mesa Blvd., Ste 401 San Diego, CA 92121 Phone: (858) 552-6979 Email: info@avivasysbio.com

### Composition / information on ingredients

<b>Chemical characterization</b>	Inorganic salt
<b>Chemical name</b>	Sodium azide
<b>CAS number</b>	26628-22-8
<b>EEC-No</b>	247-852-1

### Hazards identification

Very toxic if swallowed. Contact with acids liberates very toxic gas.

### First aid measures

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

### Fire fighting measures

<b>Special risks</b>	May explode if heated. May evolve toxic fumes in fire.
<b>Suitable extinguishing media</b>	Not applicable.

### 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.

### Handling and storage

<b>Handling</b>	Avoid prolonged contact with copper or lead, especially in drainage systems or mercury and other heavy metals which may result in the formation of 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.
<b>Storage</b>	Store at 4°C Keep container closed and protected from direct sunlight and moisture. Store away from combustible materials.

### Exposure controls / personal protection

As appropriate to quantity handled.	
<b>Respirator</b>	Dust respirator.
<b>Ventilation</b>	Extraction hood.
<b>Gloves</b>	Rubber or plastic.
<b>Eye protection</b>	Goggles or face shield.
<b>Other precautions</b>	Plastic apron, sleeves, boots - if handling large quantities.

### Physical and chemical properties

<b>Form</b>	Solid
<b>Colour</b>	Pink/White
<b>Odour</b>	Odourless
<b>Melting point</b>	No data available.

<b>Boiling temperature</b>	No data available.
<b>Density</b>	No data available.
<b>Vapour pressure</b>	No data available.
<b>Solubility in water</b>	Very soluble.
<b>Flash point</b>	
<b>Explosion limits</b>	No data available.
<b>Ignition temperature</b>	No data available.

#### Stability and reactivity

Stable unless heated.

Slow reaction at ambient temperature unless water contains dissolved carbon dioxide. Decomposes violently with bromine or chromyl chloride.

Contact with acids liberates highly toxic gas: forms readily detonatable salts with many metals, particularly heavy metals.

#### Toxicological information

After ingestion, irritation of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Danger of skin absorption.

**Systemic effect** Cardiovascular disorders, NS disorders, diarrhoea, tiredness.

**Toxic effects** Kidneys

**Further data** LD50 27 mg/kg oral, rat.  
No evidence of carcinogenic properties.  
Evidence of mutagenic effects.

#### Ecological information

The following applies to azides in general azides are toxic for aquatic organisms.

**Biological effects** Fish *L. macrochirus* toxic from 1.5ppm upwards in 24h.

**Approximate acute toxicity for lower organisms** 5mg/l; </> p>

**Approximate toxicity for cold blooded animals** 1mg/l (values stated for sodium azide).

#### Disposal considerations

Chemical residues are generally classified as special waste, and as such 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.

#### Transportation information

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

#### Regulatory information

Labelling according to EEC directives

<b>Symbol</b>	T+ Very toxic.
<b>R-phrases</b>	R28-32 Very toxic if swallowed. Contact with acids liberates very toxic gas.
<b>S-phrases</b>	S28-45 After contact with skin, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
<b>EEC-No.</b>	247-852-1
<b>UK exposure limits:</b>	OES, Short term, mg/m <sup>3</sup> : 0.3 - Sodium azide (as NaN <sub>3</sub> )