

# IBL Material Safety Data Sheet

## 1. Identification of substance/mixture and company information

Product : Listed on the front cover.


Product detail : Antibody or labeled Antibody, (Lyophilized)

### Manufacturer /Supplier of the safety data sheet

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## 2. Composition/information on ingredients

- **Chemical characterization:** Mixture
- **Description:** Mixture of substance below as a hazardous additive (preservative).

Dangerous substance:	CAS Number	Percent (w/w) %
Sodium azide 	26628-22-8	5 % (After reconstitution, 0.05 % in w/v %)

- **Additional information:**  
This product is poisonous substance under control law in Japan.

Below are information as  $\text{NaN}_3$

## 3. Hazard identification

- **Hazard description:**  
Very hazardous in case of skin contact (irritant), of eye contact (irritant). Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death.  
Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
- **Information concerning to particular hazards to man and environment:**  
Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.  
Dangerous for the environment.

## 4. First aid measures

- **Eye Contact:**  
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
- **Skin Contact:**  
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin.  
Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.  
Wash contaminated clothing before reusing.
- **Serious Skin Contact:**  
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
- **Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
- **Serious Inhalation:**

*For research use only, not for use in diagnostic procedures.*

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Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

· **Ingestion:**

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

· **Serious Ingestion:** Not available.

### 5. Fire fighting measures

· **Flammability of the Product:** May be combustible at high temperature.

· **Auto-Ignition Temperature:** Not available.

· **Flash Points:** Not available.

· **Flammable Limits:** Not available.

· **Products of Combustion:** Some metallic oxides.

· **Fire Hazards in Presence of Various Substances:** Highly flammable in presence of shocks.

· **Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of static discharge: Not available.

Highly explosive in presence of shocks, of metals.

· **Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

· **Special Remarks on Fire Hazards:** Not available.

· **Special Remarks on Explosion Hazards:** Not available.

### 6. Accidental release measures

· **Measures for environmental protection:**

Not to flow into the river etc. , and collect what flows out with sand or other nonflammable absorbents.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### 7. Handling and storage

· **Precautions:**

Keep locked up. Keep away from heat. Keep away from sources of ignition. Avoid contact with skin and eyes Keep away from incompatibles such as metals.

· **Storage:**

Keep container dry. Keep in a cool place. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

### 8. Exposure control and personal protection gear

· **Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

· **Personal Protection:**

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### 9. Physical and chemical properties

· <b>Chemical formulae:</b>	NaN <sub>3</sub>
· <b>Molecular weight:</b>	65.01

· <b>Form:</b>	Powder
· <b>Colour:</b>	Not available
· <b>Odour:</b>	Not available
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Decomposes
<b>Boiling point/Boiling range:</b>	Not available
· <b>Flash point:</b>	Not available
· <b>Self-igniting:</b>	Not self-igniting.
· <b>Density:</b>	Not determined
· <b>Solubility in / Miscibility with Water:</b>	Soluble in cold water

#### 10. Stability and reactivity

- **Stability:** Unstable.
- **Instability Temperature:** Not available.
- **Conditions of Instability:** Not available.
- **Incompatibility with various substances:** Extremely reactive or incompatible with metals.
- **Special Remarks on Reactivity:** Not available.

#### 11. Toxicological information

- **Acute toxicity:** Poison
- **Routes of Entry:** Eye contact. Inhalation. Ingestion.
- **Toxicity to Animals:**  
Acute oral toxicity (LD50): 27 mg/kg [Mouse].  
Acute dermal toxicity (LD50): 20 mg/kg [Rabbit].
- **Chronic Effects on Humans:** Not available.
- **Other Toxic Effects on Humans:**  
Very hazardous in case of skin contact (irritant).  
Hazardous in case of ingestion, of inhalation.  
Slightly hazardous in case of skin contact (permeator).
- **Special Remarks on Toxicity to Animals:** Not available.
- **Special Remarks on Chronic Effects on Humans:** Not available.
- **Special Remarks on other Toxic Effects on Humans:** Not available.

#### 12. Ecological information

- **Ecotoxicity:** Not available.
- **Products of Biodegradation:**  
Possibly hazardous short/long term degradation products are to be expected.
- **Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.
- **Special Remarks on the Products of Biodegradation:** Not available.

#### 13. Disposal consideration

- **Recommendation:** Dispose in accordance with country and local regulations.

#### 14. Transport information

- **DOT Classification:** CLASS 6.1; Poisonous material.
- **Identification:** Sodium azide      UN: 1687      PG: II
- **Special Provisions for Transport:** Not available.

#### 15. Regulations

- **Labelling according to JP guidelines:**  
Poison by "Poisonous and Deleterious Substances Control Law" in Japan (> 0.1 %)
- **National regulations**  
**DSCL (EEC):**  
R38- Irritating to skin. R41-Risk of serious damage to eyes.

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**HMIS (U.S.A.):**

Health Hazard: 3

Fire Hazard: 1

Reactivity: 3

Personal Protection: E

**National Fire Protection Association (U.S.A.):**

Health: 3

Flammability: 1

Reactivity: 3

**16. Other information**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used as a guide. Immuno-Biological Laboratories Co., Ltd. shall not be held liable for any damage resulting from handling or contact with the above product. The burden of safe use of these materials rests solely with the user.