Safety Data Sheet

[1] PRODUCT AND COMPANY INFORMATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Manufacturer's name</th>
<th>Address</th>
<th>Section</th>
<th>Telephone</th>
<th>Fax</th>
<th>SDS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Egg (Ovalbumin) Lateral Flow</td>
<td>Morinaga Institute of Biological Science, Inc.</td>
<td>2-1-16 Sachiura, Kanazawa-ku  Yokohama 236-0003 Japan</td>
<td>Quality assurance department</td>
<td>+81-45-791-7673</td>
<td>+81-45-791-7675</td>
<td>GHS-NR-11</td>
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<tr>
<td>Casein Lateral Flow II R</td>
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<td>Gluten (Gliadin) Lateral Flow</td>
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</table>

[2] HAZARDS IDENTIFICATION

Kit contains mixtures of hazardous and non-hazardous substances. Below are materials identified as potentially hazardous.

(1) Sodium lauryl sulfate, water

Human health hazard
- Serious eye damage: Category 2B
- Eye irritation: Category 3
- Specific target organ systemic toxicity: Category 2B (repeated exposure)

Environmental hazard
- Hazardous to the aquatic environment (acute hazard): Category 3

Pictogram or symbol
- !

Signal word: danger

Hazard statement:
- Causes serious eyes irritation.
- May cause respiratory irritation.
- May cause damage to organs (kidney) through prolonged or repeated exposure.
- Harmful to an aquatic life.

Cautions
- Safety measures: Wear appropriate protective gloves, glasses, clothing, face shield, or mask.
- First-aid measures: If in eyes: Rinse cautiously with water for several minutes. Get medical treatment.
- If on skin: Remove contaminated clothing and the substance. Rinse cautiously with water. Immediately get medical treatment.

(2) Sodium sulfite, water

Human health hazard
- Serious eye damage: Category 2B

Pictogram or symbol
- !
Signal word : Warning
Hazard statement : Causes serious eyes irritation.

Cautions
First-aid measures : If in eyes: Rinse cautiously with water for several minutes.
Get medical treatment
Wash hands thoroughly after handling.

(3) Chemical substance A (Not disclosed)
Human health hazard
Acute toxicity, Oral : Category 5
Skin corrosion · Irritation : -
Pictogram or symbol : -
Signal word : Warning
Hazard statement : Maybe harmful if swallowed
Cautions
Safety measures : -
First-aid measures : Call a doctor if you feel unwell.

[3] COMPOSITION/INFORMATION ON INGREDIENTS
(1) Sodium lauryl sulfate, water
Substance/Mixture : Substance
Chemical name or commercial name : Sodium n-dodecyl sulfate
Synonyms : Sodium lauryl sulfate
Ingredients and composition : Sodium lauryl sulfate, water solution. The content is not disclosed
Formula : CH₃(CH₂)₁₀CH₂OSO₃Na
CAS-No. : 151-21-3
TSCA Inventory : Registered
EINECS : 2057881

(2) Sodium sulfite, water
Substance/Mixture : Substance
Chemical name or commercial name : Sodium sulfite, water
Ingredients and composition : Sodium sulfite, water solution. The content is not disclosed
Formula : Na₂SO₃
CAS-No. : 7757-83-7
TSCA Inventory : Registered
EINECS : 2318214

(3) Chemical substance A (Not disclosed)
Substance/Mixture : Substance
Chemical name or commercial name : Not disclosed
Formula : Not disclosed
CAS-No. : Not disclosed

[4] FIRST AID MEASURES
Inhalation : Remove the victim to fresh air. Blow nose and gargle
Skin contact : Wash the affected areas under running water.
Eye contact : Wash the affected areas under running water.
Ingestion : Give the victim one or two glasses of water or saline and induce vomiting. Get medical treatment.

[5] FIRE-FIGHTING MEASURES
Extinguishing media : This product is noncombustible.
Prohibited extinguishing media : None
Particular fire fighting : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.
Protection for firefighters : Firefighters should wear protective equipment.
**ACCIDENTAL RELEASE MEASURES**

1. Sodium lauryl sulfate, water
2. Sodium sulfite, water

- **Cautions for personnel**: Wear proper equipment and avoid contact with skin and inhalation of vapor.
- **Cautions for environmental**: Attention should be given not to cause damage to the environment by flowing of spillage to rivers. In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater.
- **Removal measures**: Absorb spill with paper or cloth.
- **Wash thoroughly with water**

(3) Chemical substance A (Not disclosed)

- **Cautions for personnel**: If necessary, wear proper equipment and avoid contact with skin and inhalation of vapor.
- **Cautions for environmental**: Nothing particular.
- **Removal measures**: Absorb spill with paper or cloth.

**HANDLING AND STORAGE**

- **Handling**
  - **Engineering measures**: Wear proper protective equipment not to contact with skin or inhalation of vapor.
  - **Cautions for safety handling**: Handle not to generate aerosol or vapor.
  - **Storage**: Use with an enclosed system or a local exhaust ventilation
  - **Adequate storage condition**: Store in a dark, cool place and tightly closed.
  - **Safety adequate container materials**: Glass, polyethylene, polypropylene

**EXPOSURE CONTROL/PERSOANAL PROTECTION**

1. Sodium lauryl sulfate, water
2. Sodium sulfite, water

- **Engineering measures**: Use only with adequate ventilation and in closed systems.
- **Control parameters**
  - ACGIH(2009): Not applicable
- **Protective equipment**
  - **Respiration protective equipment**: Not necessary
  - **Hands protective equipment**: Impervious protective gloves
  - **Eyes protective equipment**: Safety goggles

(3) Chemical substance A (Not disclosed)

- **Engineering measures**: Use only with adequate ventilation and in closed systems.
- **Control parameters**
  - ACGIH(2009): Not applicable
- **Protective equipment**
  - **Respiration protective equipment**: Not necessary
  - **Hands protective equipment**: Impervious protective gloves
  - **Eyes protective equipment**: Safety goggles

**PHYSICAL AND CHEMICAL PROPERTIES**

1. Sodium lauryl sulfate, water

- **Appearance**: Liquid
- **Colour**: Colourless
- **Odor**: Odorless
- **pH**: 7.0-9.0
- **Boiling point**: Not Available
- **Melting point**: Not Available
- **Flash point**: Noncombustible
- **Specific gravity**: Approx. 1.0 g/mL
- **Solubility**: Water: Freely soluble
(2) Sodium sulfite, water

**Appearance**: Liquid

**Colour**: Colourless

**Odor**: Odorless

**pH**: 9.0-11.0

**Boiling point**: Not Available

**Melting point**: Not Available

**Flash point**: Noncombustible

**Specific gravity**: Approx. 1.1 g/mL

**Solubility**: Water: Freely soluble

(3) Chemical substance A (Not disclosed)

**Appearance**: Liquid

**Colour**: Colourless

**Odor**: Odorless

**pH**: Approx. 4

**Boiling point**: Approx. 100°C

**Melting point**: Approx. 0°C

**Flash point**: Noncombustible

**Specific gravity**: Approx. 1.0 g/mL

**Solubility**: Water: Freely soluble

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**【10】STABILITY AND REACTIVITY**

(1) Sodium lauryl sulfate, water

**Stability**: Stable under normal usage

**Reactivity**: May react with strong oxidizing substances.

**Incompatible conditions**: Light, heat

**Incompatible materials**: Oxidizing substances

**Hazardous decomposition products**: Toxic fumes of sulfur oxides (Sox), carbon monoxide

(2) Sodium sulfite, water

**Stability**: Stable under normal usage

**Reactivity**: oxidized gradually in air

**Incompatible conditions**: Light, heat

**Incompatible materials**: Oxidizing substances

**Hazardous decomposition**: Sulfur oxides

(3) Chemical substance A (Not disclosed)

**Stability**: Stable under normal usage

**Reactivity**: May react with alkaline substances.

**Incompatible conditions**: Light, heat

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**【11】TOXICOLOGICAL INFORMATION**

(1) Sodium lauryl sulfate, water

**Acute toxicity, Oral**: Out of category

**Acute toxicity, Dermal**: Out of category

**Inhalation (gas)**: Not possible to classify because of insufficient data

**Inhalation (dust, mist)**: Not possible to classify because of insufficient data

- If swallowed, may cause nausea, vomiting, abdominal pain.
- Rat oral LD50=1290mg/kg (as sodium lauryl sulfate)
- Rat intreperitoneal LD50=210mg/kg (as sodium lauryl sulfate)

**Skin corrosiveness**: Out of category

**Irritation to skin, eyes**: Causes serious eyes irritation.(Category 2B)

Since cause moderate irritaiton to the eyes of rabbit, it was classified into category 2B.

**Respiratory sensitization or skin sensitization**: Not possible to classify because of insufficient data

**Skin sensitization**: Not possible to classify because of insufficient data

**Mutagenecity**: Out of category

**Carcinogenic effects**: Not possible to classify because of insufficient data

**Effects on the reproductive system**: Not possible to classify because of insufficient data
Specific target organ systemic toxicity (Single exposure)

- Causes stimulation to respiratory organs. (Category 3)
  - Based on descriptions that respiratory tract irritation is seen by aerosol exposure in a mouse, a rabbit, and a guinea pig and that respiratory tract irritation is seen by short term exposure, it was classified into category 3.

Specific target organ systemic toxicity (repeated exposure)

- May cause damage to organs (kidney) through prolonged or repeated exposure (category 2)
  - It is written that there were vacuolar degeneration of kidney tubular epithelial cells, and atrophia of kidney glomerulus. Since these symptoms were found within the scope of the guidance value of Category 2, it was classified into category 2 (kidney).

Aspiration hazard

- Not possible to classify because of insufficient data.

(2) Sodium sulfite, water

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, Oral</td>
<td>Out of category</td>
</tr>
<tr>
<td>Acute toxicity, Dermal</td>
<td>Not possible to classify because of insufficient data</td>
</tr>
<tr>
<td>Inhalation (gas)</td>
<td>Not possible to classify because of insufficient data</td>
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<tr>
<td>Inhalation (dust, mist)</td>
<td>Not possible to classify because of insufficient data (as Sodium sulfite)</td>
</tr>
<tr>
<td>Skin corrosiveness</td>
<td>Out of category</td>
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<tr>
<td>Irritation to skin, eyes</td>
<td>Causes serious eyes irritation. (Category 2B)</td>
</tr>
<tr>
<td></td>
<td>Since cause moderate irritation to the eyes of rabbit, it was</td>
</tr>
</tbody>
</table>

Respiratory sensitization or skin sensitization

- Respiratory sensitization: Not possible to classify because of insufficient data
- Skin sensitization: Not possible to classify because of insufficient data
- Mutagenecity: Out of category
- Carcinogenic effects: Not possible to classify because of insufficient data

Effects on the reproductive system

- Not possible to classify because of insufficient data.

Specific target organ systemic toxicity (Single exposure)

- Not possible to classify because of insufficient data

Specific target organ systemic toxicity (repeated exposure)

- Not possible to classify because of insufficient data

Aspiration hazard

- Not possible to classify because of insufficient data.

(3) Chemical substance A (Not disclosed)

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
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<tbody>
<tr>
<td>Acute toxicity, Oral</td>
<td>Category 5</td>
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<tr>
<td>Acute toxicity, Dermal</td>
<td>Not possible to classify because of insufficient data</td>
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<tr>
<td>Inhalation (gas)</td>
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<tr>
<td>Inhalation (dust, mist)</td>
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<td>Skin corrosiveness</td>
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Respiratory sensitization or skin sensitization

- Respiratory sensitization: Not possible to classify because of insufficient data
- Skin sensitization: Not possible to classify because of insufficient data
- Mutagenecity: Not possible to classify because of insufficient data
- Carcinogenic effects: Not possible to classify because of insufficient data

Effects on the reproductive system

- Not possible to classify because of insufficient data.

Specific target organ systemic toxicity (Single exposure)

- Not possible to classify because of insufficient data

Specific target organ systemic toxicity (repeated exposure)

- Not possible to classify because of insufficient data

Aspiration hazard

- Not possible to classify because of insufficient data.
[12] ECOLOGICAL INFORMATION

(1) Sodium lauryl sulfate, water
   Ecotoxicity
   Fish toxicity
   Acute aquatic toxicity : Category 3  American Lobster LC50=0.72mg/L/96H
   Chronic aquatic toxicity : Not possible to classify because of insufficient data

(2) Sodium sulfite, water

(3) Chemical substance A (Not disclosed)
   Ecotoxicity
   Fish toxicity
   Acute aquatic toxicity : Not possible to classify because of insufficient data
   Chronic aquatic toxicity : Not possible to classify because of insufficient data

[13] DISPOSAL CONSIDERATIONS

Residual disposal: Dilute with copious water and adjust the pH of the solution, after flush in drains. Or entrust approved waste disposal companies with the disposal.
Containers: In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

[14] TRANSPORT INFORMATION

UN class: Not applicable
UN-Number: Not applicable

[15] REGULATORY INFORMATION

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

[16] OTHER INFORMATION

References: Encyclopaedia Chemica, Kyoitsu Shuppan Co., Ltd.

The information contained herein is based on several references and the present state of our knowledge. However, the MSDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information, and it does not represent a guarantee the properties of the product.