



## Section 1. Identification

### 1.1. Product identifier

|                   |                                       |        |
|-------------------|---------------------------------------|--------|
| Product Identity  | Bovine Serum Albumin (BSA) Fraction V |        |
| Catalog Number(s) | FB98                                  | FB99-1 |
|                   | FB99                                  | FB100  |

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

|              |   |
|--------------|---|
| Intended use | For Cell culture, Further Manufacturing or Research use Only. Not for Direct Therapeutic Use. |
|--------------|---|

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

|              |   |
|--------------|---|
| Company Name | Alkali Scientific<br>5370 NW 35th Terrace, Suite 112<br>Fort Lauderdale, FL 33309 |
|--------------|---|

### Emergency

|                   |                |
|-------------------|----------------|
| Customer Service: | 1-888-927-5629 |
|-------------------|----------------|

## Section 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

No applicable GHS categories.

### 2.2. Label elements

No applicable GHS categories.

#### [Prevention]:

No GHS prevention statements

#### [Response]:

No GHS response statements

#### [Storage]:

No GHS storage statements

#### [Disposal]:

No GHS disposal statements

## Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|----------------------------------|----------|--------------------|-------|
|----------------------------------|----------|--------------------|-------|

|  |            |                       |             |
|--|------------|-----------------------|-------------|
| <b>Albumins, blood serum</b><br><b>CAS Number: 9048-46-8</b> | <b>100</b> | <b>Not Classified</b> | <b>----</b> |
|--|------------|-----------------------|-------------|

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

### 4.1. Description of first aid measures

|                   |  |
|-------------------|--|
| <b>General</b>    | In all cases of doubt, or when symptoms persist, seek medical attention.<br>Never give anything by mouth to an unconscious person.   |
| <b>Inhalation</b> | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| <b>Eyes</b>       | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.   |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.  |
| <b>Ingestion</b>  | If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.   |

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

|                 |   |
|-----------------|---|
| <b>Overview</b> | No specific symptom data available.<br>Treat symptomatically. Check section 2.2 (GHS Label Elements) for further details. |
|-----------------|---|

## Section 5. Fire-fighting measures

### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.  
Unsuitable extinguishing media: Do not use; water jet.

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

Hazardous decomposition: No hazardous decomposition data available.

### 5.3. Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

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## Section 6. Accidental release measures

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

Put on appropriate personal protective equipment (see section 8).

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

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

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.  
Check section 2.2 (GHS Label Elements) for further details.

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

Incompatible materials: No available information

Check section 2.2 (GHS Label Elements) for further details. - [Storage]: Store product in 2°C – 8°C conditions. May be shipped ambient or refrigerated.

### 7.3. Specific end use(s)

No available information

## Section 8. Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure

| CAS No.   | Ingredient            | Source | Value                |
|-----------|-----------------------|--------|----------------------|
| 9048-46-8 | Albumins, blood serum | OSHA   | No Established Limit |
|           |                       | ACGIH  | No Established Limit |
|           |                       | NIOSH  | No Established Limit |

The exposure limits for nuisance dust are: OSHA PEL: 15 mg/m<sup>3</sup> (50 mppcf\*) TWA, ACGIH 10 mg/m<sup>3</sup>.

### 8.2. Exposure controls

**Respiratory** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**Eyes** Protective safety glasses recommended

**Skin** Avoid skin contact. Protective gloves recommended.

**Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details.

## Section 9. Physical and chemical properties

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

**Physical State** Powder

**Color** Light brown to cream powder

**Odor** No available information

|  |  |
|--|--|
| <b>Odor threshold</b>                                  | No available information   |
| <b>pH</b>  | No available information   |
| <b>Melting point / freezing point</b>                  | No available information   |
| <b>Initial boiling point and boiling range</b>         | No available information   |
| <b>Flash Point</b>                                     | °F °C, Test method: (Open/Close cup)   |
| <b>Evaporation rate (Ether = 1)</b>                    | No available information   |
| <b>Flammability (solid, gas)</b>                       | No available information   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> No available information<br><b>Upper Explosive Limit:</b> No available information |
| <b>Vapor pressure (Pa)</b>                             | No available information   |
| <b>Vapor Density</b>                                   | No available information   |
| <b>Relative Density</b>                                | No available information   |
| <b>Solubility in Water</b>                             | No available information   |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | No available information   |
| <b>Auto-ignition temperature</b>                       | No available information   |
| <b>Decomposition temperature</b>                       | No available information   |
| <b>Viscosity (cSt)</b>                                 | No available information   |
| <b>VOC Content</b>                                     |  |
| <b>Oxidising properties</b>                            | No available information   |
| <b>Explosive properties</b>                            | No available information   |

## 9.2. Other information

No other relevant information.

## Section 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No available information

### 10.4. Conditions to avoid

Avoid high temperatures and contact with incompatible material

### 10.5. Incompatible materials

No available information

### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

## Section 11. Toxicological information

### Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| <b>Ingredient</b>                   | <b>Oral LD50, mg/kg</b> | <b>Skin LD50, mg/kg</b> | <b>Inhalation Vapor LC50, mg/L/4hr</b> | <b>Inhalation Dust/Mist LC50, mg/L/4hr</b> | <b>Inhalation Gas LC50, ppm</b> |
|-------------------------------------|-------------------------|-------------------------|--|--|---------------------------------|
| Albumins, blood serum - (9048-46-8) | No data available.      | No data available.      | No data available.                     | No data available.                         | No data available.              |

### Carcinogen Data

| <b>CAS No.</b> | <b>Ingredient</b>     | <b>Source</b> | <b>Value</b>  |
|----------------|-----------------------|---------------|---|
| 9048-46-8      | Albumins, blood serum | OSHA          | Regulated Carcinogen: No;                             |
|                |                       | NTP           | Known: No; Suspected: No;                             |
|                |                       | IARC          | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; |
|                |                       | ACGIH         | No Established Limit                                  |

| <b>Classification</b>         | <b>Category</b> | <b>Hazard Description</b> |
|-------------------------------|-----------------|---------------------------|
| Acute toxicity (oral)         | ---             | Not Applicable            |
| Acute toxicity (dermal)       | ---             | Not Applicable            |
| Acute toxicity (inhalation)   | ---             | Not Applicable            |
| Skin corrosion/irritation     | ---             | Not Applicable            |
| Serious eye damage/irritation | ---             | Not Applicable            |
| Respiratory sensitization     | ---             | Not Applicable            |
| Skin sensitization            | ---             | Not Applicable            |
| Germ cell mutagenicity        | ---             | Not Applicable            |
| Carcinogenicity               | ---             | Not Applicable            |
| Reproductive toxicity         | ---             | Not Applicable            |
| STOT-single exposure          | ---             | Not Applicable            |
| STOT-repeated exposure        | ---             | Not Applicable            |
| Aspiration hazard             | ---             | Not Applicable            |

## Section 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

| <b>Ingredient</b>                   | <b>96 hr LC50 fish, mg/l</b> | <b>48 hr EC50 crustacea, mg/l</b> | <b>ErC50 algae, mg/l</b> |
|-------------------------------------|------------------------------|-----------------------------------|--------------------------|
| Albumins, blood serum - (9048-46-8) | No data available.           | No data available.                | No data available.       |

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

No available information

### 12.4. Mobility in soil

No available information

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

This product contains no PBT/vPvB chemicals.

#### 12.6. Other adverse effects

No available information

### Section 13. Disposal considerations

#### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

### Section 14. Transport information

|   | <b>DOT (Domestic Surface Transportation)</b>                                | <b>IMO / IMDG (Ocean Transportation)</b>                        | <b>ICAO/IATA</b>   |
|---|---|---|--|
| <b>14.1. UN number</b>                    | Not Regulated   | Not Regulated   | Not Regulated  |
| <b>14.2. UN proper shipping name</b>      | Not Regulated   | Not Regulated   | Not Regulated  |
| <b>14.3. Transport hazard class(es)</b>   | <b>DOT Hazard Class:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable | <b>IMDG:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable | <b>Air Class:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable |
| <b>14.4. Packing group</b>                | Not Applicable  | Not Applicable  | Not Applicable   |
| <b>14.5. Environmental hazards</b>        | Marine Pollutant: No;   |   |  |
| <b>14.6. Special precautions for user</b> | No available information  |   |  |

### Section 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act (TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

#### **EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

|                                      |
|--------------------------------------|
| <b>Section 16. Other information</b> |
|--------------------------------------|

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The full text of the phrases appearing in section 3 is:

Not Applicable

Disclaimer: The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

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