

# SAFETY DATA SHEET

New Zealand

Section 1. Identification

Other means of identification

**Product name** 

Bovine Serum Albumin (BSA), Culture Grade,

pH 7.0

Not available.

Catalogue Number SH30574

Product type Powder.

Identified uses

Supplier

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## Person who prepared the MSDS:

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## **Emergency telephone number**

111

# Section 2. Hazards identification

HSNO Classification Not classified.

This material is not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

**GHS label elements** 

Signal word No signal word.

Hazard statements No known significant effects or critical hazards.

Precautionary statements

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.

Other hazards which do not

result in classification

May form explosible dust-air mixture if dispersed.

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## Section 3. Composition/information on ingredients

Substance Substance/mixture Other means of identification Not available

**CAS** number/other identifiers

CAS number Not available. EC number Not available. **Product code** SH30574

Ingredient name % **CAS** number Albumins, blood serum 100 9048-46-8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Ingestion Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable

> for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention if symptoms occur.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check

for and remove any contact lenses. Get medical attention if irritation occurs.

## Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Inhalation Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the nose, throat and lungs.

Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards.

Eye contact Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the eyes.

### Over-exposure signs/symptoms

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion No specific data. Skin No specific data.

Eves Adverse symptoms may include the following:

irritation redness

## Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if

large quantities have been ingested or inhaled.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

#### **Extinguishing media**

Suitable Use dry chemical powder. Not suitable Do not use water jet.

chemical

Specific hazards arising from the May form explosible dust-air mixture if dispersed.

Hazardous thermal No specific data.

decomposition products

Hazchem code Not available

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Special precautions for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

equipment and emergency procedures

Personal precautions, protective No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

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

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

Conditions for safe storage, including any incompatibilities Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

## **Control parameters**

## Occupational exposure limits

None

Appropriate engineering controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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Safety eyewear complying with an approved standard should be used when a risk assessment Eve protection

indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree

of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

# Section 9. Physical and chemical properties

## **Appearance**

Physical state Solid. [Powder.] Colour Not available. Odour Not available. **Odour threshold** Not available.

**Melting point** Not available. **Boiling point** Not available. Flash point Not available. **Burning rate** Not available. **Burning time** Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Lower and upper explosive Not available.

(flammable) limits

Not available. Vapour pressure Vapour density Not available. Not available Relative density Solubility Not available Solubility in water Not available. Partition coefficient: n-octanol/ Not available.

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. SADT Not available. Viscosity Not available. Flow time (ISO 2431) Not available.

**Aerosol product** 

Type of aerosol Not applicable. Heat of combustion Not available. Ignition distance Not applicable. **Enclosed space ignition - Time** Not applicable.

equivalent

Enclosed space ignition -

**Deflagration density** 

Not applicable.

Flame height Not applicable. Flame duration Not applicable.

## Section 10. Stability and reactivity

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).

Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before

transferring material. Prevent dust accumulation.

Incompatible materials Reactive or incompatible with the following materials:

oxidizing materials

Article Number SH30574 Page: 4/7 **Hazardous decomposition** 

products produced.

Under normal conditions of storage and use, hazardous decomposition products should not be

## Section 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the nose, throat and lungs.

Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards.

Eve contact Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the eyes.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion No specific data. Skin contact No specific data.

Eye contact Adverse symptoms may include the following:

> irritation redness

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Acute toxicity**

Not available.

#### Irritation/Corrosion

Not available.

#### **Sensitisation**

Not available.

#### Potential chronic health effects

General No known significant effects or critical hazards.

Inhalation Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Eye contact No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

## **Chronic toxicity**

Not available.

#### Carcinogenicity

Not available.

# **Mutagenicity**

Not available.

# **Teratogenicity**

Not available.

## Reproductive toxicity

Not available

## Specific target organ toxicity

Not available.

#### **Aspiration hazard**

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#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Not available.

## Section 12. Ecological information

**Ecotoxicity** 

No known significant effects or critical hazards.

#### Aquatic and terrestrial toxicity

Not available

#### Persistence/degradability

Not available.

#### **Bioaccumulative potential**

Not available

#### **Mobility in soil**

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### Disposal methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14.	<b>Transport</b>	information
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Regulatory information	UN number	Proper shipping name		Classes	PG*
New Zealand Class	Not available.	Not available.		Not available.	-
			No.		
IATA Class	Not available.	Not available.		Not available.	-
			-		
			No.		
IMDG Class	Not available.	Not available.		Not available.	-
			No.		
DC* - Dooking group					

PG\* : Packing group

Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of Marpol and the IBC Code Not available.

# Section 15. Regulatory information

HSNO Approval Number Not available.
HSNO Group Standard Not available.
HSNO Classification Not classified.

## International regulations

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

## Montreal Protocol (Annexes A, B, C, E)

Not listed.

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#### Stockholm Convention on Persistent Organic Pollutants

Not listed

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

New Zealand
All components are listed or exempted.
Australia
All components are listed or exempted.
Europe
All components are listed or exempted.
United States
All components are listed or exempted.
Canada inventory
All components are listed or exempted.
China
All components are listed or exempted.
Japan
Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia Not determined

#### Section 16. Other information

#### History

Date of printing21 April 2020Date of issue/ Date of revision08 March 2019Date of previous issue10/5/2018

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**Key to abbreviations** ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified

by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

References Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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