

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 12/04/2014 Version: 1.0

| SECTION 1: Identification of the sub | stance/mixture and of the compa | any/undertaking | q |
|---|---|---------------------|---------------------------------------|
| 1.1. Product identifier | | | |
| Trade name | : BOVINE SERUM ALBUMIN, PROTEAS | SE AND PHOSPHA | TASE FREE |
| CAS No | : 9048-46-8 | | - |
| Product code | : AB01244 | | |
| 1.2. Relevant identified uses of the subs | tance or mixture and uses advised again | ist | |
| Use of the substance/mixture | : Laboratory use/Manufacturing component | | |
| Use of the substance/mixture | : Chemical substance for research | | |
| 1.3. Details of the supplier of the safety | data sheet | | |
| AmericanBio, Inc. | | | |
| 15 Erie Dr. | | | |
| Natick, MA 01760 - USA T 800.443.0600 - F 508.655.2754 | | | |
| info@americanbio.com - www.americanbio.com | | | |
| 1.4. Emergency telephone number | | | |
| Emergency number | : 855.835.2572 (U.S.) :: 760.602.8703 (C | Outside U.S.) | |
| | | , | |
| SECTION 2: Hazards identification | | | |
| 2.1. Classification of the substance or n | ixture | | |
| Classification (GHS-US) | | | |
| Not classified | | | |
| | | | |
| 2.2. Label elements | | | |
| GHS-US labeling | | | |
| No labeling applicable | | | |
| | | | |
| 2.3. Other hazards | | | |
| No additional information available | | | |
| 2.4. Unknown acute toxicity (GHS-US) | | | |
| No data available | | | |
| SECTION 3: Composition/information | n on ingredients | | |
| 3.1. Substance | | | |
| Name | Product identifier | % | Classification (GHS-US) |
| BOVINE SERUM ALBUMIN, PROTEASE AND | (CAS No) 9048-46-8 | 100 | Not classified |
| PHOSPHATASE FREE (Main constituent) | | | |
| Full text of H-phrases: see section 16 | ł | I | |
| 3.2. Mixture | | | |
| Not applicable | | | |
| SECTION 4: First aid measures | | | |
| 4.1. Description of first aid measures | | | |
| First-aid measures general | : If you feel unwell, seek medical advice. | Never give anything | by mouth to an unconscious person |
| not and measures yeneral | If you feel unwell, seek medical advice. | | |
| First-aid measures after inhalation | : Remove the victim into fresh air. Respir fresh air breathing. Allow the victim to r | | sult a doctor/medical service. Assure |
| First-aid measures after skin contact | : Rinse with water. Soap may be used. Take victim to a doctor if irritation persists. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. | | |
| First-aid measures after eye contact | : Rinse with water. Take victim to an oph plenty of water. Obtain medical attentio | | |

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| Symptoms/injuries : Unikely to cause harmful effects. Not expected to present a significant hazard under anticipe conditions of normal use. 4.3. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting media suitable extinguishing media suitable extinguishing media : Water spray. Sand. Unsuitable extinguishing media : No unsuitable extinguishing media : DIRECT FIRE HAZARD. No data available on direct splosion hazard. Explosion hazard : DIRECT FIRE HAZARD. No data available on indirect explosion hazard. Explosion hazard : On burning: release of toxic and corrosive gases/vapours (ntrous vapours, carbon monoxide carbon dioxide). S. Advice for fireflighters : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Protection during firefighting : Exprosure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exercise caution when fighting ary | ccording to Federal Register / Vol. 77, No. 58 / Mond | ay, March 26, 2012 / Rules and Regulations |
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| | Methods for cleaning up | Stop dust cloud by humidifying. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. |
| 6.4. Reference to other sections | 6.4. Reference to other sections | |

See Heading 8. Exposure controls and personal protection.

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| SECTION 7: Handling and storage | | | |
|---|--|--|--|
| 7.1. Precautions for safe handling | | | |
| Precautions for safe handling | : Comply with the legal requirements. Clean contaminated clothing. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. | | |
| 7.2. Conditions for safe storage, including | any incompatibilities | | |
| Storage conditions | : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use. | | |
| Incompatible products | : Strong bases. strong acids. | | |
| Incompatible materials | : Sources of ignition. Direct sunlight. | | |
| Heat-ignition | : KEEP SUBSTANCE AWAY FROM: heat sources. | | |
| Prohibitions on mixed storage | : KEEP SUBSTANCE AWAY FROM: oxidizing agents. | | |
| Storage area | : Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements. | | |
| Special rules on packaging | : SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers. | | |
| Packaging materials | : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available. | | |
| 7.3. Specific end use(s) | | | |

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

8.2. **Exposure controls**

| Personal protective equipment | : Avoid all unnecessary exposure. |
|-----------------------------------|--|
| Materials for protective clothing | : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available. |
| Hand protection | : Gloves. Wear protective gloves. |
| Eye protection | : Safety glasses. Chemical goggles or safety glasses. |
| Skin and body protection | : Protective clothing. |
| Respiratory protection | : Dust production: dust mask with filter type P1. Wear approved mask. |
| Other information | : When using, do not eat, drink or smoke. |

SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical and | d chemical properties |
|---|--------------------------|
| Physical state | : Solid |
| Appearance | : Crystalline powder. |
| Color | : White to light yellow. |
| Odor | : Mild odour. |
| Odor threshold | : No data available |
| рН | : No data available |
| pH solution | : 6-8 |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Self ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |

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| Relative density | : No data available |
|------------------------|---|
| Solubility | : Poorly soluble in water. Water: > 30 % |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |
| 9.2. Other information | |

No additional information available

| SECTION 10: Stability and reactivity | |
|--|---|
| 10.1. Reactivity | |
| On burning: release of toxic and corrosive gases | vapours (nitrous vapours, carbon monoxide - carbon dioxide). |
| 10.2. Chemical stability | |
| No data available. Not established. | |
| 10.3. Possibility of hazardous reactions | |
| Not established. | |
| 10.4. Conditions to avoid | |
| Direct sunlight. Extremely high or low temperatu | res. |
| 10.5. Incompatible materials | |
| strong acids. Strong bases. | |
| 10.6. Hazardous decomposition products | \$ |
| fume. Carbon monoxide. Carbon dioxide. | |
| SECTION 11: Toxicological informat | ion |
| 11.1. Information on toxicological effects | |
| | |
| Acute toxicity | : Not classified |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| | |
| Specific target organ toxicity (repeated | : Not classified |
| exposure) | |
| Aspiration hazard | : Not classified |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| | |
| SECTION 12: Ecological information | |
| 12.1. Toxicity | |
| Ecology - air | : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). |

| | - | • • | - | . , |
|------------------|----------------------|------------------|-------------|--------------|
| : Severe water p | ollutant (surface wa | ater). No data a | vailable on | ecotoxicity. |

| 12.2. | Persistence and degradability | | |
|--------|----------------------------------|--|--|
| BOVIN | NE SERUM ALBUMIN, PROTEASE AND I | PHOSPHATASE FREE (9048-46-8) | |
| Persis | tence and degradability | Biodegradability in water: no data available. Not established. | |
| / / | | | |

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| 12.3. Bioaccumulative potential | |
|---|--|
| BOVINE SERUM ALBUMIN, PROTEASE AND Bioaccumulative potential | No bioaccumulation data available. Not established. |
| | |
| 12.4. Mobility in soil No additional information available | |
| | |
| 12.5. Other adverse effects | |
| Other information | : Avoid release to the environment. |
| SECTION 13: Disposal considerations | 5 |
| 13.1. Waste treatment methods | |
| Waste disposal recommendations | : Remove to an authorized waste treatment plant. Dispose in a safe manner in accordance with local/national regulations. |
| Additional information | LWCA (the Netherlands): KGA category 03. Can be considered as non hazardous waste according to Directive 2008/98/EC. |
| Ecology - waste materials | : Avoid release to the environment. |
| SECTION 14: Transport information | |
| In accordance with DOT | |
| No dangerous good in sense of transport regulation | ins |
| Additional information | |
| Other information | : No supplementary information available. |
| | |
| ADR | • LINI NI/A |
| 1 1 | : UN N/A : N/A |
| | : N/A |
| | : N/A |
| Transport by sea | |
| No additional information available | |
| Air transport | |
| No additional information available | |
| SECTION 15: Regulatory information | |
| 15.1. US Federal regulations | |
| BOVINE SERUM ALBUMIN, PROTEASE AND | PHOSPHATASE FREE (9048-46-8) |
| Not listed on the United States TSCA (Toxic Sub | stances Control Act) inventory |
| 15.2 International regulations | |
| 15.2. International regulations | |
| CANADA No additional information available | |
| | |
| | |
| EU-Regulations | |
| No additional information available | |
| | |
| Classification according to Regulation (EC) No | . 1272/2008 [CLP] |
| Not classified | |
| | |
| Classification according to Directive 67/548/EE | C or 1999/45/EC |
| Not classified | |
| 15.2.2. National regulations | |
| No additional information available | EN (English US) 5/6 |

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15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

SDS US (GHS HazCom 2012)

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