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Bovine Serum Albumin Lyophilised pH ~7 - 9048-46-8 PM-T1725

1.1	Product Identifier:	Bovine Serum Albumin Lyophilised pH ~7 - 9048-46-8 PM-T1725			
		Albumins, blood serum			
	CAS:	9048-46-8			
	EC:	232-936-2			
	Index:	Non-applicable			
	REACH:	Non-applicable			
	Other means of ide	entification:			
	Not relevant				
1.2	Relevant identified uses of the substance or mixture and uses advised against:				
	Relevant uses:				
	Uses advised against	: All uses not specified in this section or in section 7.3			
1.3	Details of the supp	lier of the safety data sheet:			
	MSE SAS FRANCE				
	15 Rue du Mans				
	49300 Cholet - France Phone: +33 02 41 64 73 41				
	biosera@mse-sas.fr				
	www.biosera.com				

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

None

2.3 Other hazards:

Product does not meet PBT/vPvB criteria Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification	Concentration
CAS:		Albumins, blood seru	m Not classified	
	232-936-2 Non-applicable Non-applicable	Regulation 1272/2008		75 - <100 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

3.2 Mixture:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.



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SECTION 4: FIRST AID MEASURES (continued)

By inhalation:

In case of symptoms, move the person affected into fresh air.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.



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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

DNEL (Workers):

Not relevant

DNEL (General population):

Not relevant

PNEC:

Not relevant

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374-1:2016+A1:2018
D	Eye and face prot	ection			

Safety data sheet This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

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Pictogram	PPE	Labelling	CEN Standard	Remarks			
Mandatory face protection	Panoramic glasses against splash/projections.	CAT II	EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically accordin the manufacturer 's instructions. Use if there risk of splashing.			
E Body protection							
Pictogram	PPE	Labelling	CEN Standard	Remarks			
	Work clothing	CATI		Replace before any evidence of deterioration. periods of prolonged exposure to the product professional/industrial users CE III is recommended, in accordance with the regulat in EN ISO 6529:2013, EN ISO 6530:2005, EN 13688:2013, EN 464:1994.			
	Anti-slip work shoes	CAT II	EN ISO 20347:2012	Replace before any evidence of deterioration. periods of prolonged exposure to the product professional/industrial users CE III is recommended, in accordance with the regulat in EN ISO 20345:2012 y EN 13832-1:2007			
F Additional emerge	ency measures						
It is not necessar	ry to take additional emer	gency measure	S.				
Environmental exp	posure controls:						
Volatile organic co With regard to Direct V.O.C. (Supply): V.O.C. density at Average carbon r Average molecula	tive 2010/75/EU, this prod 0 % v : 20 °C: 0 kg/ number: Not re	duct has the fol weight m ³ (0 g/L) elevant	lowing characteristics:				
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SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)
	Kinematic viscosity at 40 °C:	Not relevant *
	Concentration:	Not relevant *
	pH:	6,5 - 7,4
	Vapour density at 20 °C:	Not relevant *
	Partition coefficient n-octanol/water 20 °C:	Not relevant *
	Solubility in water at 20 °C:	Not relevant *
	Solubility properties:	Not relevant *
	Decomposition temperature:	Not relevant *
	Melting point/freezing point:	Not relevant *
	Flammability:	
	Flash Point:	Non-applicable
	Flammability (solid, gas):	Not relevant *
	Autoignition temperature:	Not relevant *
	Lower flammability limit:	Not relevant *
	Upper flammability limit:	Not relevant *
	Explosive (Solid):	
	Lower explosive limit:	Not relevant *
	Upper explosive limit:	Not relevant *
	Particle characteristics:	
	Median equivalent diameter:	Not relevant *
9.2	Other information:	
	Information with regard to physical hazard clas	ses:
	Explosive properties:	Not relevant *
	Oxidising properties:	Not relevant *
	Corrosive to metals:	Not relevant *
	Heat of combustion:	Not relevant *
	Aerosols-total percentage (by mass) of flammable components:	Not relevant *
	Other safety characteristics:	
	Surface tension at 20 °C:	Not relevant *
	Refraction index:	Not relevant *
	*Not relevant due to the nature of the product, not providing info	ormation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	_			

10.5 Incompatible materials:

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SECT	ION 10: STABILITY AND	REACTIVITY (contin	nued)						
	Acids	Water	Oxidising materials	Combustible materials	Others				
	Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases				
.0.6	Hazardous decomposition products:								
	See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO ₂), carbon monoxide and other organic compounds.								
				- ,,,					
ECT	TON 11: TOXICOLOGICA	L INFORMATION							
1.1	Information on hazard cl	asses as defined in R	egulation (EC) No 127	2/2008:					
	LD50 oral > 2000 mg/kg (ra	t)							
	Dangerous health implica	ations:							
	In case of exposure that is n adverse effects on health ma A- Ingestion (acute effect):			han the recommended oc	cupational exposure limits				
	 Acute toxicity: Based on available data, the classification criteria are not met Corrosivity/Irritability: Based on available data, the classification criteria are not met B- Inhalation (acute effect): 								
	 Acute toxicity : Based on available data, the classification criteria are not met Corrosivity/Irritability: Based on available data, the classification criteria are not met Contact with the skin and the eyes (acute effect): 								
	 Contact with the skin: Based on available data, the classification criteria are not met Contact with the eyes: Based on available data, the classification criteria are not met D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): 								
	 Carcinogenicity: Based on available data, the classification criteria are not met IARC: Not relevant Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met E- Sensitizing effects: 								
	 Respiratory: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met F- Specific target organ toxicity (STOT) - single exposure: 								
	Based on available data, the classification criteria are not met								
	G- Specific target organ toxicity (STOT)-repeated exposure:								
	 Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met Skin: Based on available data, the classification criteria are not met H- Aspiration hazard: 								
	Based on available data, the classification criteria are not met								
	Other information:								
	Not relevant								
	Specific toxicology information on the substances:								
	Not available								
1.2	Information on other haz	ards:							
	Endocrine disrupting pro	perties							
	Endocrine-disrupting propert		not meet the criteria.						
	Other information								
	Not relevant								



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SECTION 12: ECOLOGICAL INFORMATION Based on available data, the classification criteria are not met 12.1 Toxicity: Acute toxicity: Identification Concentration Species Genus C50 >100 mg/L (96 h) Fish Albumins, blood serum EC50 CAS: 9048-46-8 >100 mg/L (48 h) Crustacean EC: 232-936-2 EC50 >100 mg/L (72 h) Algae 12.2 Persistence and degradability: Not available 12.3 Bioaccumulative potential: Not available 12.4 Mobility in soil: Not available 12.5 Results of PBT and vPvB assessment: Product does not meet PBT/vPvB criteria 12.6 Endocrine disrupting properties: Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Non-hazardous

Type of waste (Regulation (EU) No 1357/2014):

Not relevant

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

The transport of dangerous goods only applies to finished products.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Article 95, REGULATION (EU) No 528/2012: Not relevant

- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant



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SECTION 15: REGULATORY INFORMATION (continued)

Seveso III:

Not relevant

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Not relevant

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.: Not relevant

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Not relevant

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

http://eui-lex.euiopa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IADC. Internetional Assess for D

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.