DRIED BLOOD CONTROL, PH NBS AMINO ACIDS AND ACYLCARNITINES FROM DRIED BLOOD SPOTS SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

1. Identification of the substance/mixture and of the company/undertaking

Product name	DRIED BLOOD CONTROL, PH NBS AMINO ACIDS AND ACYLCARNITINES FROM DRIED BLOOD SPOTS
Order. No(s).	-
Identified uses	Product for diagnostic use
company/undertaking Identification	Paya Hamsan Technologies, Chamran Building, Azad University, Daneshgah Blvd., Arak, Iran Tel-Fax: +98 86 33670011 Email: info@phtech.ir

2. Hazards identification

Classification of the substance or mixture	according to Regulation (EC) No 1272/2008 (CLP) This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.
Label Elements	Labelling according to Regulation (EC) No 1272/2008 (CLP) not required
Other hazards	The human whole blood used for the manufacturing of the control was tested for the absence of several pathogenic germs (see instruction leaflet of product). Nevertheless, reagents with biological matrix should be generally considered as potentially infectious and treated with appropriate care.

3. Composition/information on ingredients

Substance	Not relevant (mixture)
Mixtures	*Description of the mixture* Dried blood, spiked with various analytes. *Hazardous ingredients acc. to EU regulation, Consideration of other advice* none

4. First aid measures

Description of first aid measures

General	Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.
Inhalation	If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.
Skin contact	Wash with plenty of soap and water.
Eye contact	Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Ingestion	Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	Symptoms and effects are not known to date.
Indication of any immediate medical attention and special treatment needed	None

5. Firefighting measures

Extinguishing media	*Suitable extinguishing media:* Water, Foam, ABC-powder *Unsuitable extinguishing media:* Water jet
Special hazards arising from the substance	
Hazardous combustion products	Carbon monoxide (CO), Carbon dioxide (CO2)
Advice for firefighters	In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

6. Accidental release measures

Personal precautions

For non-emergency personnel: Remove persons to safety.

For emergency responders: Wear breathing apparatus if exposed to vapors/dust/spray/gases.

Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

Methods for containment and cleaning up

Advice on how to contain a spill: Covering of drains, Take up mechanically

Advice on how to clean up a spill: Take up mechanically.

Other information relating to spills and releases: Place in appropriate containers for disposal. Ventilate affected area.

Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

7. Handling and storage

Handling

Recommendations
- Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.
- Specific notes/details: Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feeding stuffs.

Storage

Managing of associated risks
- Explosive atmospheres: Removal of dust deposits.

Control of effects
Protect from sunlight. Protect from moisture.

Specific end use(s)

See section 16 for a general overview.

8. Exposure controls/personal protection

Control parameters	No data available.
Exposure controls	*Appropriate engineering controls:* General ventilation. *Individual protection measures (personal protective equipment) Eye/face protection:* Wear eye/face protection. *Skin protection* - Hand protection Wear protective gloves. - Other protection measures Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. *Respiratory protection* In case of inadequate ventilation wear respiratory protection. *Environmental exposure controls* Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

9. Physical and chemical properties

Physical state	solid (pellets)
Color	red brown
Odor	information on this property is not available
Melting/freezing point	not determined
Boiling point, boiling range	not determined
Flammability	this material is combustible, but will not ignite readily
Lower, upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	not relevant

Water solubility	not determined
Partition coefficient n-octanol/water (log value)	this information is not available
Vapor pressure	not determined
Density	not determined
Particle characteristics	not determined
Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Miscibility	Completely miscible with water.
Solvent content	0 %
Solid content	100 %

10. Stability and reactivity

Reactivity	Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".
Chemical stability	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous reactions	No known hazardous reactions.
Conditions to avoid	There are no specific conditions known which have to be avoided. *Hints to prevent fire or explosion* The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.
Incompatible materials	Oxidizers.
Hazardous decomposition products	Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

11. Toxicological information

Information on hazard classes	Test data are not available for the complete mixture. *Classification procedure* The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)	This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC. *Acute toxicity:* Shall not be classified as acutely toxic.
Skin corrosion/irritation	Shall not be classified as corrosive/irritant to skin.
Serious eye damage/eye irritation	Shall not be classified as seriously damaging to the eye or eye irritant.
Respiratory or skin sensitization	Shall not be classified as a respiratory or skin sensitizer.
Germ cell mutagenicity	Shall not be classified as germ cell mutagenic.
Carcinogenicity	Shall not be classified as carcinogenic.
Reproductive toxicity	Shall not be classified as a reproductive toxicant.
Specific target organ toxicity (single exposure)	Shall not be classified as a specific target organ toxicant (single exposure).
Specific target organ toxicity (repeated exposure)	Shall not be classified as a specific target organ toxicant (repeated exposure).
Aspiration hazard	Shall not be classified as presenting an aspiration hazard.
Information on other hazards	There is no additional information.

12. Ecological information

Toxicity	Shall not be classified as hazardous to the aquatic environment.
Persistence and degradability	No data available.
Bio accumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No data available.
Endocrine disrupting properties	No data available.
Other adverse effects	No data available.

13. Disposal considerations

Waste treatment methods

Sewage disposal-relevant information
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packaging
Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Waste of this product should be collected and disposed as patient samples.

14. Transport information

UN number

not subject to transport regulations

UN proper shipping name

not assigned

Transport hazard class(s)

none

Packaging group

not assigned

Environmental hazards

none non-environmentally hazardous acc. to the dangerous goods regulations

Special precautions for users

There is no additional information.

Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

15. Regulatory information

Safety, health and environmental regulations/legislation

Deco-Paint Directive (2004/42/EC)
VOC content: 0 %
Directive on industrial emissions (VOCs, 2010/75/EU)
VOC content: 0 %

Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. Other information

Abbreviations and acronyms	
Abbr.	**Descriptions of used abbreviations**
ADN	European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
PBT	Persistent, Bio accumulative and Toxic
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RID	Regulations concerning the international carriage of Dangerous goods by Rail
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bio accumulative
ADN	European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways
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Disclaimer

The information in this document is based on the best of our knowledge and shall be used only as a guide. The information given is designed for safe use, handling, storage, transportation and disposal. It does not represent any guarantee of the quality of the product.