BUREAU VERITAS
Certification

LATAK -S2-424

Certification

Awarded to

SIA "Biosan"

Rātsupītes iela 7, korp.2, Rīga, LV-1067, LATVIA

Bureau Veritas Certification certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standard detailed below

STANDARD

ISO 9001:2015

SCOPE OF CERTIFICATION

DEVELOPMENT, PRODUCTION, SALES AND SERVICE OF LABORATORY EQUIPMENT.

Original cycle start date: 25.05.2004.

Recertification Audit date: 09.04.2019.

Recertification cycle start date: 26.05.2019.

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: 25.05.2022.

Certificate Number : LVRIG24119A *Version:* 1 *Revision date:* 11.04.2019.

Certification Manager
Iveta Lazdiņa

Certification body address: Bureau Veritas Latvia SIA, Duntes street 17a, Riga, LV-1005, Latvia

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation. To check this certificate validity please call +371 67323246

BUREAU VERITAS

Safety Data Sheet in Accordance with regulation 453/2010

Medical-Biological Research & Technologies

Date of issue : 17.01.2018
Replaces Data Sheet of : ---
"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade Name : PDS-250, DNA/RNA Decontamination Solution, Spray, 250 ml
Article No. : BS-040107-DK
Preparation No. : n.av.
Registration No. : n.av.

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

Use: Laboratory chemicals Research and Development.

1.3. Details of the supplier of the safety data sheet

1.3.1 Address of the Company:

Biosan SIA, 7 Ratsupites Str., 2 build., LV-1067, Riga, Latvia
Telephone : +371 67 426 137, +371 67 860 693 Telefax : +371 67 428 101, E-Mail : info@biosan.lv

1.4. Emergency telephone number

LATVIA - State fire and rescue service: (+371) 112; (+371) 113;
The national poison information center: +371 67042468;
GERMANY - International emergency number
+49 180 2273-112. Transport Emergency phone number:
(24 h service), phone: +49 621 60-43333;
UNITED KINGDOM - National Poisons Information Service
(24 h service), phone: +44 (0) 844-892-0111 (UK only);
FRANCE - INRS FRANCE: phone: +33 (0)1 45 42 59-59.
FOR OTHER EU COUNTRIES, please consult:
http://echa.europa.eu/help/nationalhelp_contact_en.aspHazards identification

1.5. Classification of the substance or mixture

Classification and labelling according to Directive 1272/2008/EC: n.ap.
Classification and labelling according to Directive 67/548/EEC: n.ap.

1.6. Label elements

Classification according to 1272/2008/EC : No.
Applicable Exemptions :
Hazard pictogram(s) :
Signal word(s) :
Component(s) :
H - Phrases :
P - Phrases :
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Additional Markings : None.
Classification according to EEC - Regulations :No.
Applicable Exemptions :
Hazard Identification :
Hazard Symbol(s) :
Component(s) :
R - Phrases :

S - Phrases :
S 46: If swallowed, seek medical advice immediately and show this container or label.
Additional Markings :
Although this product does not require a hazard warning label, we recommend that the safety advice should be observed.
The above mentioned labelling is valid for distribution to industrial user.

1.7. Other hazards
None.

SECTION 2: Composition/information on ingredients

2.1. Substances
Dangerous Ingredients :

2.2. Mixtures
Chemical Characterisation :
Aqueous solution of phosphoric acid
Dangerous Ingredients :

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R / H - phrases
7664-38-2	015-011-00-6	231-633-2	Phosphoric acid	1 - 5%	C ; GHS05	R 34 ; H314

SECTION 3: First aid measures

3.1. Description of first aid measures

3.2. Inhalation :
After inhalation of product / fumes of fire leave contaminated area and provide for fresh air. In the event of symptoms occurring, seek medical treatment.

3.2.1 Skin Contact :
In case of contact with skin wash off immediately with water. If irritation persists consult physician.

3.2.2 Eye Contact :
Flush eyes out immediately with large amounts of water with eye lids lifted. If irritation persists, contact physician.

3.2.3 Ingestion :
Rinse mouth out and drink plenty of water. Give anti-foaming agent if necessary. Seek medical advice immediately.

3.3. Most important symptoms and effects, both acute and delayed
None.

3.4. Indication of any immediate medical attention and special treatment needed
n.av.

SECTION 4: Firefighting measures

4.1. Extinguishing media

4.1.1 Suitable Extinguishing Media :
Foam, dry chemicals, CO2. water spray jet

4.1.2 Extinguishing Media to Avoid :
Full water jet.

4.2. Special hazards arising from the substance or mixture
In case of fire, product may form: Organic crack products and carbon oxides.

4.3. Advice for firefighters

4.3.1 Special Protective Equipment :

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

4.3.2 Additional Information :

This material is not combustible; use extinguishing media appropriate for surrounding fire.

SECTION 5: Accidental release measures

5.1. Personal precautions, protective equipment and emergency procedures

See chapter 8.2.2

High risk of slipping due to leakage / spillage of product.

5.2. Environmental precautions

Do not allow larger quantities to enter drainage. Soak up with absorbent material. Inform responsible authorities after accidental conduction of larger quantities. Prevent risk of slipping by covering with mineral dispersion material.

5.3. Methods and material for containment and cleaning up

5.4. Reference to other sections

None.

SECTION 6: Handling and storage

6.1. Precautions for safe handling

6.1.1 Precautions for Safe Handling :

When using do not eat, drink or smoke. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.

6.1.2 Precautions in Case of Fire and Explosion :

No special measures necessary

6.2. Conditions for safe storage, including any incompatibilities

6.2.1 Storage Instructions : No special measures required.

6.2.2 Store away from : Do not store together with oxidizing agents.

6.2.3 Further Information on Storage Conditions : None.

6.3. Specific end use(s)

n.av.

SECTION 7: Exposure controls/personal protection

7.1. Control parameters

Material: Phosphoric acid

Limit Value: AGW: 2 E mg/m³

7.2. Exposure controls

7.2.1 Appropriate engineering controls

No special measures necessary if used correctly.

7.2.2 Individual protection measures

7.2.2a Respiratory Protection: Not relevant

7.2.2b Hand Protection : In case of prolonged skin contact use protective gloves.

7.2.2c Eye Protection : tightly fitting goggles

7.2.2d Skin Protection : Not relevant

7.2.2e Further Information :

7.2.3 Environmental exposure controls : n.av.

SECTION 8: Physical and chemical properties

8.1. Information on basic physical and chemical properties

8.1.1a	Form : liquid	
8.1.1b	Colour : colourless	
8.1.1c	Odour : characteristic	
8.1.2	pH-value, undiluted :	n.av., pH-value, 1% aqueous solution : n.av.
8.1.3	Boiling point / Boiling - range (°C) :	> 100,
8.1.3a	Melting point / Melting range (°C) :	n.av.
8.1.4	Flash point (°C, c.c.) :	n.ap.,
8.1.5	Flammability (EEC A10/A13) :	n.av.
8.1.6	Ignition temperature (°C) :	n.av.
8.1.7	Autoflammability (EEC A16) :	n.ap.
8.1.8	Oxidising properties :	n.ap.
8.1.9	Explosion hazard :	None.
8.1.10	Explosion limits (Vol.%) lower :	n.ap., upper : n.ap.
8.1.11	Vapour pressure :	n.av.
8.1.12	Density (g/ml) :	~1
8.1.13	Solubility (in Water) :	Soluble
8.1.13a	Soluble in :	
8.1.14	Partition coefficient, n-Octanol/Water :	n.av.
8.1.15	Viscosity :	n.av.
8.1.16	Solvent content (m %) :	Not relevant

8.2. Other information

8.2.1	Thermal decomposition (°C) :	n.av.
8.2.2	Vapour density (Air = 1) :	n.av.

SECTION 9: Stability and reactivity

9.1. Reactivity None.

9.2. Chemical stability

Stable at normal temperature.

9.3. Possibility of hazardous reactions

No hazardous reactions known.

9.4. Conditions to avoid

Observe the usual precautionary measures for handling chemicals.

9.5. Incompatible materials

Reactions with oxidizer.

9.6. Hazardous decomposition products

No dangerous decomposition products when properly handled.

SECTION 10: Toxicological information

10.1. Information on toxicological effects

10.1.1 Acute Health Effects :

Inhalation, LC50 rat, (mg/l/4h) :	n.av.
Ingestion, LD50 rat, (mg/kg) :	n.av.
Skin - contact, LD50 rat, (mg/kg) :	n.av.
Irritation (to skin / eye) :	Mildly irritating - not to be labelled.
Sensitisation :	n.av.

10.1.2 Subacute / Chronic Toxicity :

Carcinogenicity :	n.av.
Mutagenicity :	n.av.
Teratogenicity :	n.av.
Narcotic Effects :	None.

10.1.3 Practical Experience

10.1.3a Observations relevant for classification :

None.

10.1.3b Further Observations :

None.

10.1.4 General Remarks :

Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 11: Ecological information

11.1. Toxicity

n.av.

11.2. Persistence and degradability

The product is biodegradable.

11.3. Bioaccumulative potential

n.av.

11.4. Mobility in soil

n.av.

11.5. Results of PBT and vPvB assessment

n.av.

11.6. Other adverse effects

11.6.1	COD-Value, mg/g :	n.av.
11.6.2	BOD5-Value, mg/g :	n.av.
11.6.3	AOX-Remarks :	Not relevant
11.6.4	Significant Components :	None.
11.6.5	Other adverse effects :	None.

SECTION 12: Disposal considerations

12.1. Waste treatment methods

12.1.1 Recommendation :D 10 / R 2 Waste - Code - No. : : 20 01 30

In addition comply with the regional authorities.

12.2. Contaminated Packaging

12.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues.

12.2.2 Safe Handling : As described under Residues.

SECTION 13: Transport information

	ADR	IMDG	IATA
	No dangerous goods according to ADR	No dangerous goods according to IMDG	No dangerous goods according to IATA-DGR
14.1	UN number		
14.2	UN proper shipping name		
14.3	Transport hazard class(es)		
14.4	Packing group		
14.5	Environmental hazards		
14.6	Special precautions for user		
	Transport-category : Classification Code : Hazard - No.: LQ:		Packing Instructions (Passenger) Packing Instructions (Cargo)
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		

SECTION 14: Regulatory information

14.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

n.av.

14.2. Chemical safety assessment :

None.

SECTION 15: Other information

15.1. Text of R / H phrases mentioned in Section 3

R 34: Causes burns.
H314: Causes severe skin burns and eye damage.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.
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PDS-250, DNA/RNA Decontamination Solution, Spray, 250 ml

DESCRIPTION

Contamination is especially problematic in the highly sensitive PCR technique. Originating from aerosolized fragments, contaminant DNA can lead to cross contamination thus resulting in inaccurate data and as a result misinterpreted analysis.

PDS-250 is ready-to-use solution for eliminating DNA, RNA from surface prior PCR reaction preparation. DNA/RNA is removed within seconds after use. The solution contains a non-alkaline and non-carcinogenic agent. PDS-250 is intended for use at PCR cabinets and laminars (e.g. **UVT-S-AR**), lab devices - **Biomagpure 12**, **TS-100**, pipettors - **Assist series piettes**, etc.

PDS-250 is effective against amplicon, plasmid, or genomic DNA and RNA from most surfaces with the exception of light or non-ferrous metals (e.g. aluminium, copper, lead, nickel, tin, titanium, zinc etc.).

PDS-250 is ready-to-use for eliminating DNA and RNA from suitable surfaces. Fast and easy decontamination; The use of PDS-250 both before and after PCR analysis is fast, easy and ideal to maintain a clean work area and thereby saves time and expenses.

PDS-250 is heat resistant and stable for several years

Recommended Use: Applicable in research and industry only. Not recommended for clinical applications. Use as directed. PDS-250 should be applied on glass, ceramic, plastic, rubber, steel and precious metal. PDS-250 cannot be used for the cleaning of light or non-ferrous metals. To avoid damage or discoloration, it is recommended to spot test sensitive surfaces prior to use.

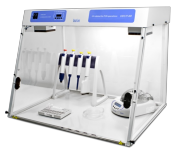
CAT. NUMBER

BS-040107-DK	PDS-250, ready-to-go formulation in a spray bottle, 250ml

SPECIFICATIONS

Volume	250 ml

ACCESSORIES



UVC/T-AR
BS-040102-AAA
DNA/RNA UV-cleaner box

DNA/RNA UV-cleaner box **UVC/T-AR** is designed for clean operations with DNA samples. UV-cleaner box provide protection against contamination.

Model is a bench-top type, made of metal framework, plexiglas walls and ...

read more

UVC/T-M-AR
With built in socket and inlet for power cords
DNA/RNA UV-cleaner box

DNA/RNA UV-cleaner box **UVC/T-M-AR** is designed for clean operations with DNA samples. UV-cleaner box provide protection against contamination.

Model is a bench-top type, made of metal framework, glass walls, working ...

read more

UVT-B-AR
With built in socket and inlet for power cords
DNA/RNA UV-cleaner box

DNA/RNA UV-cleaner box**UVT-B-AR** is designed for clean operations with DNA samples. UV-Cabinet provide protection against contamination.

Model is a bench-top type, made of metal framework, working surface made of ...

read more

UVT-S-AR
BS-040107-AAA
DNA/RNA UV-cleaner box

DNA/RNA UV-cleaner box**UVT-S-AR** is designed for clean operations with DNA samples. UV-cleaner box provide protection against contamination.

Model is a bench-top type, made of metal framework, glass walls, working ...

read more

PDS-10L
BS-040107-FK
DNA/RNA Decontamination Solution 10l

DNA/RNA Decontamination Solution.