

Date of issue: 20.05.2026

Replaces Data Sheet of: 19.09.2025

*** 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, ready-to-go formulation in a spray bottle, 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, Ratsupites iela 7 k-2, LV-1067, Riga, Latvia

Telephone: +371 67 426 137, 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:

<https://echa.europa.eu/support/helpdesks>

1.5. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]: The mixture is classified as not hazardous according to regulation (EC) No. 1272/2008 [CLP].

Labelling according to Regulation (EC) 1272/2008 [CLP]: According to EC directives or the corresponding national regulations, the product does not have to be labelled.

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

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 7664-38-2 EC No.: 231-633-2 REACH No.: 01-2119485924-24-XXXX	orthophosphoric acid Acute Tox. 4 (H302), Eye Dam. 1 (H318), Met. Corr. 1 (H290), Skin Corr. 1B (H314)  Danger Specific concentration limit (SCL) Skin Corr. 1B; H314: C ≥ 25% Eye Irrit. 2; H319: 10% ≤ C < 25% Skin Irrit. 2; H315: 10% ≤ C < 25%	0 – ≤ 2 weight-%
CAS No.: 68439-50-9	Fatty alcohol c12-c14, ethoxylated Aquatic Acute 1 (H400), Aquatic Chronic 3 (H412)  Warning M-factor (acute): 1	0 – ≤ 1 weight-%

SECTION 3: First aid measures

3.1. Description of first aid measures

3.1.1 General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing immediately. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Remove contaminated, saturated clothing.

3.1.2 Inhalation:

Provide fresh air.

3.1.3 Skin Contact:

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

3.1.4 Eye Contact:

Rinse immediately carefully and thoroughly with eye-bath or water..

3.1.5 Ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

3.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

3.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 4: *Firefighting measures

4.1. Extinguishing media

4.1.1 *Suitable extinguishing Media: Dry extinguishing powder, Carbon dioxide (CO₂). Co-ordinate fire-fighting measures to the fire surroundings.

4.1.2 Unsuitable extinguishing media: Full water jet.

4.2. Special hazards arising from the substance or mixture

Phosphorus oxides, carbon dioxide.

4.3. Advice for firefighters

*Wear positive pressure self-contained breathing apparatus.

4.4. 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

5.1.1 *For non-emergency personnel

Personal precautions: Remove persons to safety. Avoid breathing dust/fume/gas/mist/vapours/spray.

Protective equipment: Wear protective gloves/protective clothing and eye protection/face protection.

5.1.2 *For emergency responders

Personal protection equipment: Personal protection equipment: see section 8

5.2. Environmental precautions

Do not allow to enter into surface water or drains.

5.3. Methods and material for containment and cleaning up

5.3.1 For containment: Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

5.3.2 For cleaning up: Water (with cleaning agent)

5.4. Reference to other sections

Safe handling, section 6. PPE, section 7. Disposal, section 12

5.5. *Additional information

Use appropriate container to avoid environmental contamination.

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: strong base.

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 data available.

7.2.2 Personal protection equipment



7.2.2a Eye/face protection: Eye glasses with side protection (EN 166).

7.2.2b Skin protection: Tested protective gloves must be worn (EN ISO 374). In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration. Suitable material: NBR (Nitrile rubber) (0,19 mm), Butyl caoutchouc (butyl rubber) (0,35 mm). Breakthrough time: >8 hour(s),

7.2.2c Respiratory protection: Usually no personal respirative protection necessary.

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:	2.1 at 20°C
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):	completely miscible
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

Substance name	Toxicological information
Orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	LD ₅₀ oral: 1,530 mg/kg (Rat) LD ₅₀ dermal: 2,740 mg/kg (Rabbit)
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	LD ₅₀ oral: >2,000 mg/kg (Rat) LD ₅₀ dermal: >3,000 mg/kg (rabbit) OECD Guideline 402 (Acute Dermal Toxicity) LC ₅₀ Acute inhalation toxicity (dust/mist): >1.6 mg/l 4 h (rat) OECD Guideline 403 (Acute Inhalation Toxicity)

- 10.1.1 Acute oral toxicity: Based on available data, the classification criteria are not met.
 10.1.2 Acute dermal toxicity: Based on available data, the classification criteria are not met.
 10.1.3 Acute inhalation toxicity: Based on available data, the classification criteria are not met.
 10.1.4 Skin corrosion/irritation: Based on available data, the classification criteria are not met.
 10.1.5 Serious eye damage/irritation: Based on available data, the classification criteria are not met.
 10.1.6 Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
 10.1.7 Germ cell mutagenicity: Based on available data, the classification criteria are not met.
 10.1.8 Carcinogenicity: Based on available data, the classification criteria are not met.
 10.1.9 Reproductive toxicity: Based on available data, the classification criteria are not met.
 10.1.10 STOT-single exposure: Based on available data, the classification criteria are not met.
 10.1.11 STOT-repeated exposure: Based on available data, the classification criteria are not met.
 10.1.12 Aspiration hazard: Based on available data, the classification criteria are not met.
 10.1.13 Additional information: No data available
 10.2. **Information on other hazards:** No data available

SECTION 11: Ecological information

11.1. Toxicity

Substance name	Toxicological information
Orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	EC ₅₀ : >100 mg/l 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) EC ₅₀ : >100 mg/l 2 d (crustaceans, Daphnia magna) NOEC: 100 mg/l 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) NOEC: 56 mg/l 2 d (crustaceans, Daphnia magna)
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	NOEC: <1 mg/l (Algae/water plant) LC ₅₀ : 1.2 mg/l 4 d (fish, Danio rerio (previous name: Brachydanio rerio)) EU Method C.1 (Acute Toxicity for Fish) EC ₅₀ : 0.53 mg/l 2 d (crustaceans, Daphnia magna) EG-Guideline 92/69/EWG NOEC: 0.66 mg/l 4 d (fish, Danio rerio (previous name: Brachydanio rerio)) EU Method C.1 (Acute Toxicity for Fish)

11.2. **Persistence and degradability:** No data available.

11.3. **Bioaccumulative potential**

Substance name	Log K _{ow}	Bioconcentration factor (BCF)
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	7	

11.4. **Mobility in soil**
n.av.

11.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
Orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	–
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	–

11.6. **Endocrine disrupting properties:** n.av.11.7. **Other adverse effects:** n.av.**SECTION 12: Disposal considerations**12.1. **Waste treatment methods**

Dispose of waste according to applicable legislation.

12.2. **Product/Packaging disposal**

12.2.1 Waste Code product: 20 01 29 – Detergents containing hazardous substances. Evidence for disposal must be provided.

12.2.2 Appropriate disposal / Product: Consult the appropriate local waste disposal expert about waste disposal.

12.2.3 Appropriate disposal / Package: Completely emptied packages can be recycled.

SECTION 13: Transport information

13.1. UN number or ID number: No dangerous good in sense transport regulations ADR/RID, AND, IMDG, ICAO-TI / IATA-DGR.

13.2. UN proper shipping name: No dangerous good in sense transport regulations ADR/RID, AND, IMDG, ICAO-TI / IATA-DGR.

13.3. Transport hazard class(es): not relevant.

13.4. Packing group: not relevant.

13.5. Environmental hazards: not relevant.

13.6. Special precautions for user: not relevant.

SECTION 14: Regulatory information14.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**

14.1.1 EU legislation, Other regulations (EU): 1907/2006 REACH, 1272/2008 CLP GHS, 98/24/EC

14.2. **Chemical safety assessment:**

No data available.

SECTION 15: *Other information15.1. **Change indication:** SECTION 4. Firefighting measures, various. SECTION 5. Accidental release measures, various. 7.2 Exposure controls. SECTION 15. Other information, various15.2. **Abbreviations and acronyms**

ACGIH – American Conference of Governmental Industrial Hygienists

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS – Chemical Abstracts Service

CLP – Classification, Labelling and Packaging

DIN – German Institute for Standardization / German Industrial Standard

DNEL – derived no-effect level

EC₅₀ – Effective Concentration 50%

ECHA – European Chemicals Agency

EN – European Standard

ES – Exposure scenario

EWC – European Waste Catalogue
 GHS – Globally Harmonized System of Classification and Labelling of Chemicals
 ICAO – International Civil Aviation Organization
 IMDG – International Maritime Dangerous Goods
 IMO – International Maritime Organization
 ISO – International Standards Organisation
 LC₅₀ – Lethal (fatal) Concentration 50%
 LD₅₀ – Lethal (fatal) Dose 50%
 MAK – Maximum concentration in the workplace air (CH)
 NFPA – National Fire Protection Association
 NIOSH – National Institute for Occupational Safety & Health
 NOEC – No Observed Effect Concentration
 OECD – Organisation for Economic Cooperation and Development
 OSHA – Occupational Safety & Health Administration
 PBT – persistent and bioaccumulative and toxic
 PNEC – Predicted No Effect Concentration
 REACH – Registration, Evaluation and Authorization of Chemicals
 RID – Dangerous goods regulations for transport by rail
 SCL – Specific concentration limit
 TRGS – Technische Regeln für Gefahrstoffe
 UN – United Nations

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations)

15.3. ***Key literature references and sources for data**

TRGS 510, TRGS 525, TRGS 900, Safety data sheets for the ingredients , 1907/2006 REACH, 1272/2008 CLP GHS

Substance name	Type	source of supply
orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
Fatty alcohol c12-c14, ethoxylated CAS No.: 68439-50-9	LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

15.4. ***Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

15.5. ***List of relevant hazard statements and/or precautionary statements**

H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H400 Very toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.

15.6. ***Training advice**

No data available

15.7. ***Additional information**

This data sheet was created in accordance with EU regulation (EC) No. 1907/2006 (REACH).

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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