

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifiers

Product name: RNase/DNase Neutralizer, Nuclease Decontamination solution
Product number: P10-61500, P10-61000, P10-65000C

Brand: PAN Biotech

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

Identified uses: Laboratory chemicals, Manufacture of substances

1.3. Details of the supplier of the safety data sheet

Company: PAN Biotech GmbH
Am Gewerbepark 6
94501 Aidenbach
GERMANY

Telephone: +49-(0)8543-6016-30

Fax: +49-(0)8543-6016-49

E-mail: info@pan-biotech.de

1.4. Emergency telephone number

Emergency phone: +49-(0)8543-6016-30 or +49 151 51557123

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Hazard Class | Abbreviation | Category | Hazard Statement |
|------------------------|---------------|----------|------------------|
| Acute aquatic toxicity | Aquatic acute | 1 | H400 |

2.2. Label Elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]

- -Hazard pictograms: ; GHS 09



- Signal word: **Warning**
- **Hazard Statements:**
 - H400 Very toxic to aquatic life
 - H412 Harmful to aquatic life with long lasting effects
- -Precautionary Statements:
 - P260 Do not breathe dust/fume/gas/mist/vapours/spray
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P303+P361+P353 IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water.
 - P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 - P308+P313 IF exposed or concerned: Get medical advice/attention.
 - P310 Immediately call a POISON CENTER or doctor/physician.
 - P403+P233 Store in a well ventilated place. Keep container tightly closed.

2.3. Other hazards

none

2.4.

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1. **Mixtures**

| Substance Name | CAS No | Weight % | Classification according to Regulation (EC) No 1278/2008 (CLP) |
|-------------------------|-----------|----------|--|
| Hydrogen peroxide, 30 % | 7722-84-1 | 0 – 5 % | Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 % Skin Corr. 1A; H314: C ≥ 70 % Skin Corr. 1B; H314: 50 % ≤ C < 70 % Skin Irrit. 2; H315: 35 % ≤ C < 50 % Eye Dam. 1; H318: 8 % ≤ C < 50 % Eye Irrit. 2; H319: 5 % ≤ C < 8 % STOT SE 3; H335; C ≥ 35 % |

4. **FIRST AID MEASURES**

4.1. **Description of first aid measures**

General remarks

Do not leave the victim unattended. Remove victim from the danger zone. Keep the victim calm, cover and keep warm. Remove soiled/soaked clothing immediately. If symptoms occur or if in doubt, seek medical attention. If unconscious, place in recovery position and do not administer anything by mouth.

If inhaled

If breathed in, move person into fresh air. If breathing becomes difficult, call a physician. If not breathing, give artificial respiration. Get medical advice/attention.

In case of skin contact

In case of contact, immediately wash skin with soap and copious amounts of water. Get medical advice/attention.

In case of eye contact

In case of contact with eyes, flush with copious amounts of water, remove contact lenses if present and easy to do and continue rinsing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical advice/attention.

If swallowed

If swallowed, call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth, if victim is conscious. Do not induce vomiting

4.2. **Most important symptoms and effects, both acute and delayed**

Coughing; Nausea; Vomiting; Cardiovascular disorders; Shortness of breath; Irritation and corrosivity. Risk of serious eye damage.

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

No information available.

5. **FIREFIGHTING MEASURES**

5.1. **Extinguishing media**

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. **Special hazards arising from the substance or mixture**

Substances or mixtures corrosive to metals

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.

6.2. Environmental precautions

Do not let product enter drains

6.3. Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Normal measures for preventive fire protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: RT

7.3. Specific end use(s)

No further information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters: Iron(III)-chloride hexahydrate

Occupational exposure limits

| Component | Country | Exposure Limit | Source |
|-------------------------|---------|---|---------------------------------------|
| Hydrogen peroxide, 30 % | Germany | MAK [ml/m ³]: 0,5 MAK [mg/m ³]: 0,71 | List of MAK and BAT Values (2024) DFG |
| Peroxyacetic acid, 35 % | Germany | MAK [ml/m ³]: 0,1 MAK [mg/m ³]: 0,32 | List of MAK and BAT Values (2024) DFG |

Exposure limits relevant to human health

| Component | Acute effect local (inhalation) | Acute effect Systemic (inhalation) | Chronic effects local (inhalation) | Chronic effects Systemic (inhalation) |
|-------------------------|---------------------------------|------------------------------------|------------------------------------|---------------------------------------|
| Hydrogen peroxide, 30 % | NEL = 3mg/m ³ | N/A | DNEL = 1.4mg/m ³ | N/A |
| Peroxyacetic acid, 35 % | DNEL = 0.56mg/m ³ | DNEL = 0.56mg/m ³ | DNEL = 0.56mg/m ³ | DNEL = 0.56mg/m ³ |

8.2. Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with Acrylonitrile butadiene rubber gloves with at least 0.11mm material thickness. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Use impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Use respiratory protection filter and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Recommendations for respiratory protection filters are based on the following standards:

DIN EN 143, DIN 14387 and associated standards for respiratory protection systems.

Recommended filter type: Filter type P2

Control of environmental exposure

Do not let product enter drains

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|---|-------------------|
| Appearance Form: | liquid |
| Odour | no data available |
| Odour Threshold | no data available |
| pH | no data available |
| Melting point/freezing point | no data available |
| Initial boiling point and boiling range | no data available |
| Flammability | no data available |
| Upper/lower flammability or explosive limits | no data available |
| Flash point | no data available |
| Evaporation rate | no data available |
| Vapour pressure | no data available |
| Vapour density | no data available |
| Relative density | no data available |
| Water solubility | no data available |
| Partition coefficient: n-octanol/water | no data available |
| Auto-ignition temperature | no data available |
| Decomposition temperature | no data available |
| Viscosity | no data available |
| Explosive properties | no data available |
| Oxidizing properties | no data available |

10. STABILITY AND REACTIVITY

10.1. Reactivity

Substances or mixtures corrosive to metals

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Substances or mixtures with a corrosive effect on metals.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Metals, strong oxidizing agents

10.6. Hazardous decomposition products

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1. Information of toxicological effects

Acute toxicity

may be harmful if swallowed

Skin corrosion/irritation

may cause skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Inhalation:

Material may be irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled.

Ingestion:

May be harmful if swallowed.

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

P10-61500

P10-61000

P10-65000C

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1. UN number

ADR/RID: -

IMDG: -

IATA: -

14.2. UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3. Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4. Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5. Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6. Special precautions for user

No data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

16. Water hazard class: Water hazard class 1: slightly hazardous to water. Classification according to Annex 1 of the „Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen“ (AwSV)
Self-assessment

16.1. Chemical Safety Assessment

No data available

17. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our



knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PAN Biotech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pan-biotech.com or reverse side of invoice or packing slip for additional terms and conditions of sale.