

1. Identification of the substance/preparation and company

Trade name:

DNA RemoverCompany: Minerva Biolabs GmbH
Landhausring 7
D-12683 Berlin

Telephone: +49-30-2000 4370

Telefax: +49-30-2000 4379

Poison emergency telephone no.: +49-30-2000 4370**Use of the substance/preparation**

cleaning product

2. Composition/information on ingredients**Chemical characterization : (preparation)**

aqueous solution, contains surfactants

Hazardous components

(Full text of each relevant R phrase can be found in heading 16)

EC No.	CAS No.	Components	Value	Symbols R-phrases
231-633-2	7664-38-2	Phosphoric acid	< 6 %	C R34
-	68439-50-9	Alcohols(C12-C14)ethoxylates	< 1 %	Xn, Xi, N R22-41-50

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

3. Hazards identification

Prolonged skin contact may cause skin irritation and/or dermatitis.

4. First aid measures**After inhalation**

Move to fresh air. If symptoms persist, call a physician.

After contact with skin

Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

After ingestion

Drink plenty of water. Do not induce vomiting. If symptoms persist, call a physician.

5. Fire-fighting measures

Suitable extinguishing media

The product is not flammable. Use extinguishing measures that are appropriate to the environment.

Extinguishing media that must not be used for safety reasons

None.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for fire fighting, if necessary.

Handle in accordance with good industrial hygiene and safety practice.

6. Accidental release measures

Personal precautions

Avoid contact with skin and eyes. Do not breath in vapours.

Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods for cleaning up/taking up

Spilled or leaking material is to be soaked up with non-flammable absorbent materials (sand, soil, diatomaceous earth) and put in containers. Dispose of as described in chapter 13.

7. Handling and storage

7.1 Handling

Advice on safe handling

Avoid contact with skin and eyes.

Advice on protection against fire and explosion

No special precautions required.

7.2 Storage

Requirements for storage rooms and vessels

Store sealed in the original container.

Advice on storage compatibility

Do not store together with alkalies.

8. Exposure controls/personal protection

8.1 Exposure limit values

Exposure limits (EH40)

Components CAS No.	Exposure limit ml/m ³	mg/m ³	F/ml	Category	Origin
Orthophosphoric acid					
7664-38-2	-	-		TWA (8 h)	OES
	-	2		STEL (15 min)	OES

Additional advice control parameters

Not applicable

8.2 Exposure controls

Occupational exposure controls

Not applicable

Protective and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Take off contaminated clothing and shoes immediately. Remove and wash contaminated clothing before re-use.

Keep away from food and drink.

Respiratory protection

Use respiratory equipment when gases, vapours/aerosols form.

Hand protection

impervious gloves, chemical-resistant

The manufacturer recommends the following glove materials: natural rubber, nitrile rubber, butyl rubber, polyvinyl chloride ; layer thickness: 4 mm , Penetration time of the glove material:: > 480 min. Safety gloves should be selected for the actual conditions of use and in accordance with the instructions for use provided by the manufacturer.

Eye protection

Safety glasses

9. Physical and chemical properties

9.1 Appearance

Form: liquid

Odour: Typical for the product.

9.2 Important health, safety and environmental information

pH Value
(at 20 °C)

2,0

Test method

Changes in the physical state

Melting point:

n.d. °C

Boiling point:

n.d. °C

Flash point:

n.a. °C

Flammability

solid:

n.a. °C

gas:

n.a. °C

Oxidizing properties

None.

Explosive properties

None.

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Explosion limits

Lower Explosion limit:

n.a.

Upper Explosion limit:

n.a.

Water solubility:
(at 20 °C)

miscible g/l

9.3 Other information**Autoignition temperature**

solid:

n.a.

gas:

n.a.

10. Stability and reactivity**Materials to avoid**

Incompatible with bases

11. Toxicological information**Acute toxicity**

No data is available on the product itself.

Sensitising effect

No known sensitizing effect.

Subacute, subchronic and prolonged toxicity

May cause eye or skin irritation with susceptible persons.

Additional information

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information**Ecotoxicity**

No data is available on the product itself.

Persistence and degradability

Properties in sewage systems: This product reduces the pH value.

Additional information

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

13. Advice on disposal**Dispose**

Disposal in accordance with the official regulations.

Contaminated packaging

Offer rinsed packaging material to local recycling facilities.

14. Transport information

14.1 Land transport (ADR/RID)

14.2 Inland waterways transport

14.3 Marine transport

14.4 Air transport

14.5 Further Information

Other data

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

15.1 Labelling

Labelling according to EC-guidelines

The product does not need to be labelled in accordance with EC directives or respective national laws.

S phrases

02-13

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

15.2 National regulations

16. Other information

List of relevant R phrases

22	Harmful if swallowed.
34	Causes burns.
41	Risk of serious damage to eyes.
50	Very toxic to aquatic organisms.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the applications named in the technical leaflet or in the processing instructions.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

n.a. = not applicable

n.d. = not determined

OES = Occupational exposure standard

MEL = Maximum exposure limit

Sk = Can be absorbed through skin

Sen = Capable of causing respiratory sensitization

Carc. Cat. = Carcinogenic Category