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1. Identification of the substance/preparation and of the company

Product details

Trade Name: Pwo-Polymerase

Cat#: M3002

Manufacturer /Supplier:

Genaxxon BioScience GmbH, Beim Wiesental 22, 88400 Biberach/Germany.
Tel.: +49 (0)7357 916377

Further information available from:

Genaxxon BioScience GmbH, Beim Wiesental 22, 88400 Biberach/Germany.
Tel.: +49 (0)7357 916377

Information in case of emergency:

Poison Information Centre Mainz, Germany
Tel.: +49 (0)6131 19240 / 24 h

MSDS-No: rDNAPwo/1

NOTE: If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

Product Use:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

2. Composition/information on ingredients

Chemical characterisation

Description: Mixture of substances listed below with non-hazardous additions

Dangerous components: Void

3. Hazardous identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment: Not applicable.

Classification system: The classification is according the latest editions of the EU-lists, and extended by company and literature data.

4. First-aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing: Call for doctor immediately.

5. Fire-fighting measures

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Do not inhale explosion gases or combustion gases.



6. Accidental release measures

Person related safety precautions: Ensure adequate ventilation.

Measures for environmental protection: Do not allow product to reach sewage system or any water course.

Measures for cleaning/collecting: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust)

7. Handling and storage

Handling

Information for safe handling: No special measures required.

Information about fire – and explosion protection: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: No special measures required.

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: None.

8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

CAS-No.	Designation of material	%	Type	Value Unit
56-81-5	glycerol	50		
OEL	10 mg/m ³			

Personal protective equipment

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Protection of hands: Protective gloves.

Materials of gloves: The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration times of gloves: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

9. Physical and chemical properties

General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

Change in conditions

Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	Undetermined
Flash point:	Not applicable
Ignition temperature:	400°C
Self-ignition:	Product is not selfigniting
Danger of explosion:	Product does not present an explosion hazard
Vapour pressure at 20°C:	0.1 hPa
Solubility in / Miscibility with water:	Fully miscible
pH-value at 20°C:	8.8



10. Stability and reactivity

Thermal composition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: Reacts with acids, alkalis and oxidizing agents.

Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

Primary irritant effects:

On the skin: Irritant to skin and mucous membranes

on the eye: Irritating effect

Sensitisation: Sensitizing effects through inhalation is possible by prolonged exposure. Sensitising effect by skin contact is possible by prolonged exposure

Additional toxicological information: The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

12. Ecological Information

General notes: Water hazard class 1 (German Regulation) (Self assessment): slightly hazardous to water. Do not allow undiluted product for large quantities of it to reach ground water, water course or sewage system.

13. Disposal considerations

Product:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agents: Water, if necessary together with cleansing agents.

14. Transport information

Land transport ADR/RID (cross border)

ADR/RID class: -

Maritime transport IMDG:

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

15. Regulatory information

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations and EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

National Regulations:

Technical instructions (air):

Class Share in %

- NK 50-100

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.



16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The information in this MSDS does not constitute a warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

Abbreviations:

N/A:	Data not applicable or not available
SARA:	Superfund and Reauthorisation Act
HMIS:	Hazard Material Information System
WHMIS:	Workplace Hazard Material Information System
NTP:	National Toxicology Program
OSHA:	Occupational Health and Safety Administration
IARC:	International Agency for Research on Cancer
Prop 65:	California Safe Drinking Water and Toxic Enforcement Act of 1986
EINECS:	European Inventory of Existing Commercial Chemical Substances