

Material Safety Datasheet

according to Regulation (EC) No.1907/2006

Revision Date: 13.03.2016

Print Date: 23.05.2016

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA



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

Product details

Trade Name: one-Fusion DNA Polymerase

Cat#: S450 - 200 units, S455 – 1000 Units

Brand: GeneON

Manufacturer /Supplier: GeneOn, Paracelsusstraße 10, D-67071 Ludwigshafen

Further information available from: GeneOn, Paracelsusstraße 10, D-67071 Ludwigshafen

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

MSDS-No: one-Fusion DNA Polymerase

Product Use: This product is for laboratory research use only and is 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: -20 °C: No special measures required. **Information about storage in one common storage facility:** No special measures required.

Geneon GmbH Germany

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E-Mail: <mailto:info@geneon.net> WEB: <http://www.GeneOn.net> Version: 10.2009 UK

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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 %

The concentration of ingredients listed below, do not exceed 1%, which is the limit when notification is needed according to the correspondent EU directives 91/155 and 93/112		
Glycerol	50%	Cas.#56-81-5
Water	49%	Cas. # N/a
KCL	<1%	Cas. #7447-40-7
Tris-HCL	<1%	Cas. #77-86-1
DTT	<1%	Cas. #3483-12-3
EDTA	<1%	Cas. #60-00-4
Tween-20	<1%	Cas. #9005-64-5

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.

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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 und 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