

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006



# GENAXXON

b i o s c i e n c e

Product number: M3307

Product name:

SuperHot Taq Polymerase

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

### Product details

**Product Name:** SuperHot Taq Polymerase

**Catalogue-No.:** M3307

### Manufacturer /Supplier:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.  
Tel.: +49 (0)731 3608 123

### Further information available from:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.  
Tel.: +49 (0)731 3608 123

### Information in case of emergency:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.  
Tel.: +49 (0)731 3608 123

**MSDS-No:** superhot/2e

**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. Hazardous identification

**Hazard description:** Not applicable

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

**GHS label elements:** Void

## 3. Composition/Information on ingredients

### Chemical Characterization

**Description:** Liquid

### Synonyms:

**Formula:** C<sub>3</sub>H<sub>8</sub>O<sub>3</sub> (of Glycerol)

**Molecular Weight:** 92.09 g/mol (of Glycerol)

**Formula:** H<sub>2</sub>O (of water)

**Molecular Weight:** 18.02 g/mol (of water)

Product name	CAS-No.	EC-No.	Index-No.	Classification	Concentration
SuperHot Taq Polymerase	9012-90-2				
Glycerol	56-81-5	200-289-5	---	---	50%
Water	7732-18-5	231-791-2	---	---	50%

The hazards identified with this product are those associated with refer to the individual material safety data sheet(s).

Kit components:

SuperHot Taq Polymerase

10X reaction buffer

## 4. First Aid Measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Zuständig : GF		Druckdatum : 2010-11-15– überarbeitet : 2010-11-15
	1 of 5	G:\products\MSDS\polymerases\m3307_msd_e.doc

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006



# GENAXXON

b i o s c i e n c e

Product number: M3307

Product name:

SuperHot Taq Polymerase

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. Fire-fighting Measures

**Suitable extinguishing media:** use water spray, CO<sub>2</sub>, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special risks:** Specific Hazard(s): Emits toxic fumes under fire conditions: Carbon monoxide, Carbon dioxide, Nitrogen oxides, (CO, CO<sub>2</sub>, NO<sub>x</sub>).

**Special protective equipment for fire-fighters:** Wear self contained breathing apparatus for fire-fighting if necessary.

## 6. Accidental release Measures

### Personal precaution procedures to be followed in case of leak or spill

Use personal protective equipment. Avoid aerosol formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid direct contact and wash spill site after material pick-up is complete.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Additional information:** None

## 7. Handling and storage

### Precautions for safe handling:

Avoid contact with eyes, skin and clothing. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Information about fire – and explosion protection:** Normal measures for preventive fire protection.

**Conditions for safe storage:** Best stored at -20°C

**Requirements to be met by storerooms and receptacles:** Keep bottles well closed. Keep at -20°C or on ice.

**Information about storage in one common storage facility:** Keep bottles well closed at -20°C.

**Further information about storage conditions:** Keep tightly closed. Store at -20°C.

**Special requirements:** None

## 8. Exposure controls/personal protection

### Personal protective equipment

#### Respiratory protection:

Respiratory protection is not required. Where protection is desired, use multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves 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. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection

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

#### Skin and body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006



# GENAXXON

b i o s c i e n c e

Product number: M3307

Product name:

SuperHot Taq Polymerase

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. Physical and chemical properties

### Appearance

**Form:** Liquid  
**Colour:** Clear - colourless  
**Odour:** None

### Safety data

#### Change in conditions

**Melting Point:** no data available  
**Boiling Point:** no data available  
**Sublimation:** no data available

**Flash Point:** no data available  
**Ignition temperature:** no data available

**Lower Explosion limit** no data available  
**Upper Explosion limit** no data available

**Density at 20°C:** no data available

**Solubility in water:** soluble (20°C)

**pH at 20°C:** 8.8

## 10. Stability and Reactivity

**Chemical stability:** Stable under recommended conditions.

**Conditions to avoid:** Avoid strong heating.

**Materials to avoid:** Strong acids, Strong bases, Strong oxidizing agents, Nitric acid.

**Dangerous decomposition products:** Carbon monoxide, Carbon dioxide, Nitrogen oxids (NOx)

**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions: Carbon monoxide, Carbon dioxide, Nitrogen oxids (NOx)

## 11. Toxicological information

### Acute Toxicity

LD50 (oral – Rat): 12,600mg/kg  
LD50 (dermal – rabbit): >10,000mg/kg

### Irritation and corrosion:

Skin – rabbit: Mild skin irritation (24h)  
Eyes – rabbit: Mild eye irritation (24h)

**Sensitization:** No data available

**Chronic exposure:** 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

**Reproductive toxicity:** No data available.

Specific target organ toxicity – repeated exposure: No data available

**Aspiration hazard:** No data available

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006



# GENAXXON

b i o s c i e n c e

Product number: M3307

Product name:

SuperHot Taq Polymerase

## Potential health effects

**Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membrane and upper respiratory tract.  
**Ingestion:** May be harmful if swallowed  
**Skin:** May be harmful if absorbed through the skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.  
**Target organs:** Kidney

## Signs and Symptoms of Exposure

Prolonged or repeated exposure can cause: Nausea, Headache, Vomiting

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

## Additional information:

RTECS: MA8050000

The product should be treated with usual precautions while handling chemicals.

## 12. Ecological Information

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

### Ecotoxicity effects:

**Toxicity to fish:** LC50 – Carassius auratus (gold fish): >5,000mg/L  
LC50 – Pimephales promelas (fathead minnow): 44,000mg/L  
LC50 – other fish: >100,000mg/L  
LC50 – Oncorhynchus mykiss (rainbow trout): 67,500mg/L (96h)

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** No data available

**General notes:** If handled accordingly no ecological problems are expected.

## 13. Disposal considerations

### Product:

**Recommendation:** Offer surplus and non-recyclable solutions to a licensed disposal company. Must not be disposed together with household garbage. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

**Uncleaned/contaminated packaging:** Dispose of as unused product.

**Recommendation:** Disposal must be made according to official regulations.

## 14. Transport information

### Land transport ADR/RID (cross border)

**ADR/RID class:** Not dangerous goods.

### Maritime transport IMDG:

**IMDG Class:** Not dangerous goods.

**Marine pollutant:** No

### Air transport ICAO-TI and IATA-DGR:

**ICAO/IATA Class:** Not dangerous goods.

## 15. Regulatory information

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

Not hazardous according to Directive 67/548/EEC

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

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006



Product number: M3307

Product name:

SuperHot Taq Polymerase

**National Regulations:** Germany

**Water hazard class:** Water hazard class 1 (Self-assessment).

## 16. Other information

### Text of H-code(s) and R-phrases mentioned in Section 3

### 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. Genaxxon bioscience GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

### Disclaimer

This product is for R&D use only. Not for drug, household or other uses.

### Abbreviation and Akronymes:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ACAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and labeling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)