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

**Product identifier**

**Product Name:** Polyethyleneglycol 8000

**Catalogue-No.:** M6061
CAS Number: 25322-68-3
EC Number: 500-038-2
**Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
**Application of the substance/the preparation**
Laboratory chemical
Chemical analytics
Molecular biology

**Details of the supplier of the safety data sheet**
**Manufacturer /Supplier:**
Genaxxon bioscience GmbH, Söflinger Str. 70, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123, info@genaxxon.com

**Further information available from:** General Management
**Emergency telephone number:** +49 (0)731 3608 123 (Monday till Friday: 7:30 – 18:30 o'clock)

**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

**Classification of the substance/preparation/mixture**
**Classification according to Regulation (EC) No 1272/2008**
The substance is not classified according to the CLP regulations.

**Classification according to European Directive 67/548/EEC or Directive 1999/45/EC.** Not applicable.
**Information concerning particular hazards for human and environment:** Not applicable

**Label elements**
**Labelling according to Regulation (EC) No 1272/2008:** Void
**Hazard pictograms:** Void
**Signal word:** Void
**Hazard-determining components of labelling:** Void
**Hazard statements:** Void
**Other hazards**
**Result of PBT and vPvB assessment**
**PBT:** not applicable
**vPvB:** not applicable

## 3. Composition/information on ingredients

**Chemical characterisation: Substances**
CAS-No.: Description
25322-68-2 Polyehtyleneglycol
Identification number(s)
EC-number: 500-038-2

## 4. First-aid measures

**Description of first aid measures**
**General information:**
**After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Contd. on page 2

Contd. of page 1

In case of unconsciousness place patient stably in side position for transportation.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
**After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately remove any clothing soiled by the product.
If skin irritation continues, consult a doctor.
**After eye contact:**
Rinse opened eye for several minutes under running water.
If symptoms persist, consult a doctor.
**After swallowing:**
Rinse out mouth. Make victim drink water (maximum of 2 drinking glasses).
Seek medical treatment.
**Information for doctor:**
**Most important symptoms and effects, both acute and delayed:** No further relevant information available.
**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

## 5. Fire-fighting Measures

**Extinguishing media**
**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
**For safety reasons unsuitable extinguishing agents:** Water with full jet.
**Special hazards arising from the substance or mixture:**
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.
In case of fire, the following can be released:
Carbon oxides (CO, CO2)
**Advice for fire-fighters:**
**Protective equipment:**
Wear self-contained respiratory protective device.
No special measures necessary.
**Additional information:**
Contain escaping vapours with water.
Dispose off fire debris and contaminated fire fighting water in accordance with official regulations.

## 6. Accidental release Measures

**Personal precautions, protective equipment and emergency procedure:**
Avoid formation of dust.
Do not inhale dust.
Ensure adequate ventilation.
**Environmental precautions:** No special measures required.
**Methods and materials for containment and cleaning up:**
Pick up mechanically
Avoid generation of dust.
Clean up affected area
Dispose off the material collected in accordance to regulations.
**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

**Handling:**
**Precautions for safe handling:**
Provide suction extractors if dust is formed.
No special measures required if used according specifications.
**Information about fire – and explosion protection:** Normal measures for preventive fire protection.

**Conditions for safe storage, including any incompatibilities**
**Storage:**

Contd. on page 3

Contd. of page 2

**Requirements to be met by storerooms and receptacles:** No special requirements.
**Information about storage in one common storage facility:** Keep container tightly sealed.
**Further information about storage conditions:**
Keep container tightly closed.
Store in dry conditions.
**Recommended storage temperature:** 15°C to 25°C.
**Storage class:** 10-13
**Specific end use(s):** No further relevant information available.

## 8. Exposure controls/personal protection

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

**Control parameters**
**Ingredients with limit values that require monitoring at the workplace:** Not required.
**Additional information:** The list valid during the making were used as basis.

**Exposure controls**
**Personal protective equipment:**
**General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with eyes and skin.
Store protective clothing separately.
Vacuum clean contaminated clothing. Do not blow or brush off contamination.
Immediately remove all soiled and contaminated clothing.
**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Required when dusts are generated.
Filter P1 (EN 143).

Required when dusts are generated

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resist ant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
**Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
**Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
**For the permanent contact gloves made of the following materials are suitable:**
Nitrile rubber, NBR
Recommended thickness of the material: ≥0.11 mm
Value for permeation: Level: >480 min.
**As protection from splashes gloves made of the following materials are suitable:**
Nitrile rubber, NBR
Recommended thickness of the material: ≥0.11 mm
Value for the permeation: Level ≥480 min.

Contd. on page 4

Contd. of page 3

**Eye/face protection:**

Safety glasses (EN 166)

**Body protection:**
Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**
**General Information**
**Appearance**

| | |
|---|---|
| **Form:** | Solid material |
| **Colour:** | White |
| **Odour:** | Odourless |
| **pH value at 20°C:** | 5.5 – 7.0 |
| **Change in conditions** | |
| **Melting point/Melting range:** | Not determined |
| **Boiling point/Boiling range:** | Undetermined |
| **Flash point:** | Not applicable |
| **Flammability (solid, gaseous):** | Product is not flammable |
| **Decomposition temperature:** | Not determined |
| **Ignition temperature:** | Not applicable |
| **Danger of explosion:** | Product does not present an explosion hazard |
| **Explosion limits:** | |
| **Lower:** | Not determined |
| **Upper:** | Not determined |
| **Vapour pressure:** | Not applicable |
| **Density (20°C):** | Not determined |
| **Bulk density at 20°C:** | Not determined |
| **Solubility in / Miscibility with (water, 20°C):** | easily soluble |
| **Partition coefficient (n-octanol/water):** | Not determined |
| **Viscosity:** | |
| **Dynamic:** | Not applicable |
| **Kinematic:** | Not applicable |
| **Solvent content:** | |
| **Organic solvents:** | 0.0% |
| **VOC (EC)** | 0.00% |
| **Other information:** | No further relevant information available. |

## 10. Stability and reactivity

**Reactivity**
**Chemical stability**
**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications..
**Possibility of hazardous reactions:** No dangerous reactions known.
**Conditions to avoid:** No further relevant information available.

Contd. on page 5

Contd. of page 4

**Incompatible materials:** No further relevant information available.
**Hazardous decomposition products:** In the event of fire: See chapter 5 of this data sheet.
**Additional information:**

## 11. Toxicological information

**Information on toxicological effects**
**Acute toxicity:**

| **LD50/LC50 values relevant for classification** | | |
|---|---|---|
| 25322-68-3 Polyethyleneglycol | | |
| **Oral** | **LD50** | 50000mg/kg (rat) |

**Primary irritant effect**
**on the skin:** No data available
**on the eye:** No data available
**After inhalation:** No data available
**Sensitization:** No sensitizing effect known.
**CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
**Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
**To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.**
The product should be treated with usual precautions while handling chemicals.
**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.

## 12. Ecological Information

**Toxicity**
**Acquatic toxicity:** No further relevant information available
**Persistence and degradability:** No further relevant information available
**Behaviour in environmental systems**
**Bioaccumulative potential:** No further relevant information available
**Mobility in soil:** No further relevant information available
**Additional ecological information**
**General notes:**
**Results of PBT and vPvB assessment**
**PBT:** Not applicable
**vPvB:** Not applicable
**Other adverse effects:** No further relevant information available.

## 13. Disposal considerations

**Waste treatment methods**
**Recommendation:**
Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.
**Uncleaned packaging:**
**Recommendation:** Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.
**Recommended cleaning agents:** Water, if necessary together with cleansing agents.

## 14. Transport information

**UN-Number**
**ADR, ADN, IMDG, IATA** Void

Contd. on page 6

Contd. of page 5

| | |
|---|---|
| **UN proper shipping name**<br>**ADR,** | Void |
| **IMDG, IATA** | Void |
| **Transport hazard class(es)**<br>**ADR, IMDG, IATA**<br>**Class** | Void |
| **Packaging group**<br>**ADR, IMDG, IATA** | Void |
| **Environmental hazards:**<br>**Marine pollutant** | No |
| **Special precautions for user** | Not applicable. |
| **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable |
| **Transport/Additional information:** | Not dangerous according to the above specifications. |
| **UN "Model Regulation":** | - |

## 15. Regulatory information

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16. 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. 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.

**Abbreviations and Acronymes:**

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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
VOC: Volatile Organic Compounds (USA, EU)
CAS: Chemical Abstracts Service (division of the American Chemical Society).
EINECS: European Inventory of Existing Commercial Chemical Substances.