



MATERIAL SAFETY DATA SHEET

According to EU Directive 91/155 EC

Reviewed on: 15/10/08

1. Chemical product and company identification

Product details

Trade name: SP6 RNA Polymerase

Catalogue number: GC-012-1000 1000 units
GC-012-10000 10000 units

Manufacturer / Supplier:

Semiramis Genetics Limited
GeneCraft Products
Manchester Science Park
Unit 57 Greenheys
Pencroft Way, Hulme
Manchester M15 6JJ
Tel.: +44 (0) 161 226 3571 / Fax: +44 (0) 161 868 0708

Further information obtainable from: Details as above

2. Composition / Information on ingredients

Chemical characterisation

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

Dangerous components: None

Composition	%	CAS #
Glycerol	50%	56-81-5
Sodium chloride (NaCl)	<1%	7647-14-5
Tris-HCl	<1%	77-86-1
EDTA	<1%	60-00-4
BME	<1%	60-24-2
Triton X100	<1%	9002-93-1

3. Hazards identification

Caution: Avoid contact by inhalation, skin and ingestion.

Target organs: Kidney, Hygroscopic

4. First-aid measures

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

After skin contact: Generally the product does not irritate the skin. Wash with soap and copious amounts of water.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.

After swallowing: Wash mouth out with water. If symptoms persist consult doctor.

5. Fire fighting measures

Suitable extinguishing media: CO₂, extinguishing powder, dry chemical or water spray.

Fight larger fires with water spray or alcohol resistant foam.

Unusual fire and explosions hazard(s): Emits toxic fumes under fire conditions.

Flammability: N/A

Prevent contact with skin and eyes.

6. Accidental release measures

Person-related safety precautions: Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors. Wear disposable coveralls and discard them after use.

Methods for cleaning up: Absorb on sand or vermiculite and place in a closed container for disposal. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

Handling: Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Storage: Keep tightly closed. Store in a cool dry place. Freeze. Store at -20°C.

8. Exposure controls / Personal protection

Engineering controls: Safety shower and eye bath. Mechanical exhaust required.

Eye protection: Wearing safety goggles is advised.

Skin protection: Gloves should be worn, either rubber or chemical resistant.

Respiratory protection: Require

Hygiene practices: Wash thoroughly after handling.

9. Physical and chemical properties

Concentration: 60 units/ μ l

Melting point: 20°C

Boiling point: 182°C

Flash point: 200°C

Solubility: water

10. Stability and reactivity

Stability: Stable

Materials to avoid: strong oxidizing agents, strong bases

Hazardous polymerization: Will not occur

Dangerous products of decomposition: carbon monoxide, carbon dioxide

11. Toxicological information

Primary irritation effect

On the skin: May cause irritation effect

On the eye: May cause irritation effect

Sensitization: May cause sensitizing effect

12. Ecological Information

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

13. Disposal Considerations

Contact a licensed professional waste disposalservice to dispose of this material. Observe all state and local environmental regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. Transport Information

Land transport: Product does not belong to a hazard class of any international agreements on the transport and packaging of dangerous goods.

Maritime transport: This product is not a marine pollutant.

Air transport: Product does not belong to any hazard classification.

15. Regulatory Information

Labelling according to EU Guidelines:

General safety regulations should always be observed when handling chemicals.

This product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.

16. Other Information

All information, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets as new information becomes available.