



## **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:** RNase-Inhibitor

**Catalogue number:**

GC-042-0100	100 units
GC-042-0250	250 units
GC-042-500	500 units
GC-042-1000	1000 units
GC-042-5000	5000 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

<b>Composition</b>	<b>%</b>	<b>CAS #</b>
Glycerol	50%	56-81-5
Potassium chloride (KCl)	<1%	7447-40-7
K-HEPES	<1%	NA
Dithiothreitol (DTT)	<1%	3483-12-3

### **3. Hazards identification**

**Caution:** Avoid contact by inhalation, skin and ingestion.

**Target organs:** Kidney, Hygroscopic

**HMIS Rating:** Health: 1, Flammability: 1, Reactivity: 1

**NFPA Rating:** Health: 1, Flammability: 0, Reactivity: 1

#### 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:** CO<sub>2</sub>, 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 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:** 5 units/μl

**Melting point:** 20°C

**Boiling point:** 182°C

**Flash point:** 160°C Method: closed up

**Self-igniting:** 370°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.