

Starna – Safety Data Sheet

Section 1: Chemical Product and Company Information

Identity: DNACON

Vial identity: 'DNACON'

Manufactured by: Starna Scientific Ltd

52/54 Fowler Road,

Hainault, Essex, England.

Phone: +44 (0)20 8501 5550. Date of preparation: 1 May 2012.

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Section 2: Composition

Reference Vial contains: Less than 1.5 ml of a buffered aqueous solution of an organic acid at less than 0.03% m/v and containing 300ppm of myristyltrimethylammonium bromide as a preservative.

Matrix Vial contains: Less than 1.5 ml of a buffered aqueous solution containing 300ppm of myristyltrimethylammonium bromide as a preservative

Section 3: Hazards Identification

Route of Entry - Inhalation: may cause lung irritation if inhaled.

Route of Entry - Skin: may cause skin irritation on prolonged contact.

Route of Entry - Ingestion: may cause stomach irritation if ingested.

Health Hazard acute and chronic: Due to the small size and volume of the vials, the only significant contact that can be made to the chemicals is through the breakage of the glass. The glass shards would be more hazardous and must be handled as with any glass breakage.

Signs and symptoms of exposure: none.

Medical Conditions aggravated by exposure: none.

Section 4: First Aid Measures

Under normal circumstances no measures are required for contact with the glass vial. In the event of breakage of any of vials, wash with water and safely dispose of the glass pieces. If contact is made with the cell liquid by breakage of the cell, the following apply.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Get medical attention immediately.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Section 5: Fire Fighting Measures

In the event of the heat from a fire causing rupture of the vial, the small volumes of the cell contents involved would not contribute to the incident or add any significant risk, and the measures shown below are for reference if the material is involved in a larger conflagration.

Suitable extinguishing agents: Carbon Dioxide, extinguishing powder, or water jet.

Protective equipment: Wear full protective clothing, and a self-contained breathing apparatus

Section 6: Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 8.

Spill: Collect using liquid absorber. Dispose of contaminated product by usual procedure.

Section 7: Handling and Storage

When not being used for measurement, store closed in provided storage box.

Protect from freezing.

Section 8: Exposure Controls, Personal Protection

Under normal use, no protective measures are required. In the event of a breakage, the following will apply to any liquid released.

Respiratory Protection: none required.

Ventilation: none required.

Protective Gloves: Chemical resistant gloves.

Eye Protection: Chemical resistant goggles.

Other protective equipment: Have immediate availability of eyewash.

Section 9: Physical and Chemical Properties

Appearance: Transparent liquid stored in a brown glass vial, 1.5 ml.

Boiling Point: 100 °C.

Specific Gravity: 1.000

Vapour Pressure (mm Hg): n/a.

Melting Point: 0 °C.

Vapour Density: n/a.

Evaporation Rate: n/a.

Solubility in Water: soluble.

Fire and Explosion Hazard:

Flash point: n/a.

Flammable limits: non-flammable.

Section 10: Stability and Reactivity

Stability: stable under normal operating conditions.

Section 11: Toxicology Information

Prolonged direct skin contact may cause skin irritation.

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Carcinogenicity: The organic acid in this product present is not identified as a probable, possible or confirmed human carcinogen by IARC at or above the level specified.

Section 12: Ecological Information

Under normal conditions of use, these vials do not constitute any risk or hazard to the environment. If broken, do not allow liquid contents to reach ground water, water bodies or sewage system.

Section 13: Disposal Considerations

Incineration: Never incinerate 'vial format' references.

Landfill: Never dispose of 'vial format' references as landfill.

Recycling:Expired references must be recycled. Contact local Starna dealer for information. Starna Scientific has a recycling protocol for all types of returned 'vial format' references.

Section 14: Transport Information

Land transport ARD/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: None Maritime transport IMDG/GGVSea IMDG/GGVSea Class: None

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class:None

Section 15: Regulatory information

Designed according to EC guidelines: Observe the normal safety regulations when handling chemicals. This vial reference is not subject to classification according to EC lists and other sources of literature known to us. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (German GefStoffV).

Section 16: Other information

Other: none.

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