



MATERIAL SAFETY DATA SHEET

Product name: Poseidon DNA Probe in

Hybridization Buffer

Revision number:

Date of revision: 2006, September 29

I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the product

Name: Poseidon DNA probe

in hybridization buffer

Product code:

Intended use:

Part of Product(s):

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Emergency information:

Produced and marketed by

KREATECH Biotechnology B.V.

Tel. +31 20 691 9181 Fax +31 20 696 3531

For use in Fluorescent In Situ Hybridization (FISH) Mail: info @ kreatech.com

II. COMPOSITION / INFORMATION ON COMPONENTS

Composition/information on ingredients

| Name | CAS number | Range % by Volume/Volume |
|--|---------------|--------------------------|
| xxx-ULS TM -labeled DNA probe | Not available | < 1 |
| Hybridization Buffer | | |
| Formamid | 75-12-7 | 20-40 |
| Dextran sulfate | 9011-18-1 | 5-30 |
| 20 x SSC: | | 2-20 |
| Sodium Chloride | 7647-14-5 | |
| Sodium Citrate | 6132-04-3 | |
| Water | 7732-18-5 | |
| | | |

III. IDENTIFICATION OF HAZARDS

Acute effects:

Potentially harmful by inhalation, ingestion or skin absorption. Irritating on contact with skin, eyes or mucous membranes. Inhalation may irritate nasal and respiratory passages.

Chronic effects:

Formamide may cause harm to the unborn child

IV. FIRST AID MEASURES

| EXPOSURE | SYMPTOMS | FIRST AID MEASURES | |
|--------------|--------------------|--|--|
| Inhalation | No data available. | If feeling unwell move individual to fresh air. Give artificial respiration if not breathing. Seek immediate medical advice. | |
| Eye contact | No data available. | Flush with copious amounts of water with the eyelid held wide open. Seek medical advice. | |
| Skin contact | No data available. | Wash with copious amounts of water. Remove contaminated clothing. Seek medical advice if irritation develops. | |
| Ingestion | No data available. | Seek immediately medical advice. | |

V. FIRE FIGHTING MEASURES

• Suitable extinguishing media:

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

• Special fire fighting procedure:

Wear self contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

• Hazardous combustion or decomposition products:

The development of combustion gases or vapors is possible in the event of fire. The following may than develop: nitrogen oxides, carbon oxides, hydrogen, hydrochloric acid and formic acid.

Fire and explosion hazards:

Slightly flammable to flammable in presence of open flames and sparks. Produces toxic fumes on thermal decomposition.

VI. MEASURES TO BE TAKEN AFTER ACCIDENTIAL RELEASE OF THE SUBSTANCE/PREPARATION

Use appropriate protective equipment and methods to clean spilled substance promptly. In case of a small spill dilute with water and mop up, or absorb spill with an inert dry material. In case of a large spill absorb with an inert material. Collect and dispose of all waste in accordance with applicable laws.

VII. INFORMATION ON HANDLING, STORAGE, TRANSPORT AND DISPOSAL CONSIDERATIONS

• Handling information

Store closed at 2-6 °C in the dark when not in use. We recommend that this product is handled only by those persons who have been trained in laboratory techniques and that it is used in accordance with the principles of good laboratory practice. As all chemical substances should be considered as potentially hazardous, wear suitable protective clothing such as a lab coat, safety glasses and gloves when handling fluid. Preferably handle in a chemical fume hood.

Stability

The product is stable when stored under the recommended conditions.

Reactivity

No reaction with water.

• Storage information

Store closed in the dark at 2-6°C.

Transport information

This product is not subject to current regulations for transportation of hazardous goods.

Disposal considerations

Product: chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. Consult either the local, state or national authorities in charge or approved waste disposal companies, for advice on how to dispose of special waste. This compound contains heavy metal.

Packaging: disposal in accordance with local provisions. Contaminated packages should be treated the same as the product itself.

VIII. PERSONAL PRECAUTIONS AND PROTECTION

Personal precautions

Follow safe laboratory practices; the usual precautions, taken when handling chemicals, should be observed. We recommend that this product is handled only by those persons who have been trained in laboratory techniques and that it is used in accordance with the principles of good laboratory practice. As all chemical substances should be considered as potentially hazardous, wear suitable protective clothing such as a lab coat, safety glasses and gloves when handling fluid.

Do not inhale vapours; do not get in eyes, on skin or on clothing. Wash hands thoroughly after handling.

Eye wash stations and deluge showers should be available

.

Personal protection

Respiratory protection: required when vapours/aerosols are generated. Preferably work in a chemical fume hood or wear adequate mask with filter (according to DIN 3181 for vapours of organic compounds).

Skin protection: required; wear suitable protective clothing and gloves.

Eye protection: required; wear safety glasses or goggles.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid, clearOdour: odorless

Other parameters with regard to health, safety and environment

pH: 7.5 – 8.5 (20 °C)
Viscosity dynamic (20°C): no data available
Boiling range: no data available
Melting range: no data available
Autoflammability: no data available
Flashing point: no data available
Explosion limits: no data available
Relative density: no data available

Solubility in water: Formamid is completely soluble in water. One gram sodium chloride

dissolves in 2.7 ml water at 25°C. Tri-sodium citrate is soluble in 1.3

parts of water.

Solubility in ethanol: not tested
Solubility in fat not tested
log P(o/w): no data available

X. STABILITY AND REACTIVITY

The product is stable when stored under the recommended conditions

• Conditions to avoid: Excess heat, protect from light.

Substances to avoid: Incompatible with strong oxidizing agents; strong reducing agents;

strong acids and strong bases.

Dangerous Products of Decomposition: No data available

XI. TOXICOLOGICAL INFORMATION

• *Effect of decomposition products:* no data available.

• Potential Hazards: Potential harmful by inhalation, ingestion or skin; toxic; irritating tp

eyes; possible risk of harm to the unborn child; potential mutagenic

Carcinogenicity: no data available; not listed by NTP, IARC or OSHA

Chronic effects: no data available

XII. ECOLOGIC INFORMATION

• *Ecotoxic effects:* when led in properly, no impairments in the function of adapted

biological waste-water-treatment plants are to be expected. Do not allow product reach ground water, water course or sewage

system.

■ Biologic persistence / degradation: no data available.

Mobility: no data available; do not allow product to reach ground water course

or sewage system.

■ Behaviour in environment: no data available.

XIII. DISPOSAL CONSIDERATIONS

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XIV. TRANSPORT INFORMATION

• Hazard Class: not determined

UN Identification number: not determined

Packing Group not classified

Proper Shipping Name (Technical Name) not determined

XV. REGULATIONS

Einecs / Elincs number: not identified

Other Country Regulations: none identified

XVI. OTHER INFORMATION

EEC Risk statements:

■ R20/21/22: harmful by inhalation, in contact with skin and if swallowed

■ **R36/37/38:** irritating to eyes, respiratory system and skin

• **R61:** may cause harm to the unborn child

\$20/21: when using do not eat, drink or smoke
 \$24/25: avoid contact with eyes and skin

• S29/56: do not empty into drains, dispose of this material and its container at hazardous or special waste

collection point

■ S36/37/39: wear suitable protective clothing, gloves and eye/face protection

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. We make no warranty express or implied, with respect to the information and assume no liability. Product users should determine the suitability of this information for their own uses.