

MATERIAL SAFETY DATA SHEET

According to 91/155/EC

Hybridization Buffer

Article number: Hybridization Buffer

Application of the substance / the preparation For In Vitro Diagnostic Use

Supplier:

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Manufacturer:

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Website: www.empiregenomics.com

Chemical characterization of Dangerous components according to EC-criteria:

CAS: 75-12-7

EINECS: 200-842-0

Formamide Repr. Cat. 2; T; R 61 40,0%

Hazard designation:



T – Toxic

R61 May cause harm to the unborn child.

S24/25 Avoid contact with skin and eyes.

S35 This material and its container must be disposed of in a safe way.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53 Avoid exposure - Obtain special instructions before use.



Xi – Irritating

R36/38 Irritating to eyes and skin.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S35 This material and its container must be disposed of in a safe way.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

Hazard-determining components of labeling: Formamide

Designation According to EC guidelines:



The classification is in line with current EC (European Community)-directives. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version in accordance with EC Directives.

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:** Rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** In case of persistent symptoms consult doctor.

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· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **Protective equipment:**

Respiratory protection not normally required unless exposure limits for released components are exceeded.

· **Person-related safety precautions:** See Personal Protective Equipment.

· **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **Information for safe handling:** No special precautions necessary if used correctly.

· **Information about protection against explosions and fires:** Keep breathing equipment ready.

· **Storage:**

· **Requirements to be met by storerooms and containers:**

Refer to the package insert or product label for additional information on storage conditions.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Protect from heat and direct sunlight.

· **Components with limit values that require monitoring at the workplace:**

75-12-7 Formamide

WEL (Great Britain)

MAC (Netherland)

Short-term value: 56 mg/m³, 30 ppm

Long-term value: 37 mg/m³, 20 ppm

16 mg/m³, 9 ppm

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

· **Breathing equipment:**

Not necessary, if room is well-ventilated.

Take precautions, if chemical concentrations exceed the exposure limits (if any) listed above.

· **Protection of hands:**

The gloves serve to protect the user against splashes. For safety reasons they should be changed immediately after wetting. Since the product is in fact a preparation out of several substances, no specific information can be given on the permeation breakthrough time. The choice of suitable gloves depends not only on the material, but also on other quality features and must, therefore, be checked with the respective manufacturer. As far as we know, disposable gloves, among other things out of nitriles, are suitable. Nevertheless, this recommendation is not intended to replace a suitability test, which is essential and must be carried out under the respective conditions of use.

· **Eye protection:** Safety glasses recommended during refilling.

General Information

Form: Fluid

Color: Colorless

Odor: Odorless

Change in condition:

Melting point/Melting range: Not determined

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Boiling point/Boiling range: Not determined

Flash point: Not applicable

Self-inflammability: Product is not self-igniting.

Danger of explosion: Product is not explosive.

Density at 20°C 1,1 g/cm³

Solubility in / Miscibility with Water: Fully miscible

pH-value at 20°C: 7

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known. · **Dangerous products of decomposition:** No dangerous decomposition products known.
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No data available for this product.
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Toxic

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

In general laboratory waste is under the special supervision of the authorities. Refer to applicable local regulations.

· **European waste catalogue:**

Please consult the responsible regulatory body for the assignment of disposal codes according to European Waste Catalogue.

· **Following waste disposal key number are possible:**

180106: chemicals consisting of or containing dangerous substances

· **Unclean packaging:** There are no uniform EC-regulations for the disposal of packaging as waste.

· **Recommendation:**

Non contaminated packaging can be used for recycling.

For disposal of contaminated packaging, please refer to applicable local regulations.

· **Land transport ADR/RID (cross-border)**

· **ADR/RID-GGVSE Class:** -

· **Remarks:** not restricted

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **Remarks:** not restricted