



Material Safety Data Sheet

Version 2.0

Revision Date: 06/02/2016

Print Date: 06/02/2016

Product and Company Identification

Product Name: 2X HotStart PCR Master Mix
Product Use: For Research Use Only. Not for use in diagnostic procedures.
Company: Molecular Cloning Laboratories(MCLAB)
320 Harbor Way
South San Francisco
CA 94080
Telephone: 1-888-MCLAB-88
1-650-871-8771
Fax: 1-650-871-8796

Hazards Identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Composition/Information on Ingredients

- Chemical characterization

- **Description:** Solution, consisting of the following components.

Components:		
CAS: 7732-18-5 EINECS: 231-791-2	water	>50%

- **Other components:** Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

First Aid Measures

General information: No special measures required.

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

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor

Fire-fighting Measures

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required.

Accidental Release Measures

Person-related safety precautions: Not required.

Measures for environmental protection: Dilute with plenty of water.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: No dangerous substances are released.

Handling and Storage

Handling:

- Information for safe handling: No special measures required.
- Information about fire and explosion protection: No special measures required.

Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

Exposure Controls/Personal Protection

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

- The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Eye protection: Goggles recommended during refilling

Physical and Chemical Properties

General Information

- Form: Solution
- Colour: Colourless
- Odour: Odourless

Change in condition

- Melting point/Melting range: Undetermined.
- Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Density: Not determined.

Solubility in / Miscibility with water: Fully miscible.

pH-value at 25°C: 8,4

Stability and Reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Materials to be avoided:

Dangerous reactions: No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

Toxicological Information

Acute toxicity

Primary irritant effect

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Ecological Information

Additional ecological information

General notes: Generally not hazardous for water

Disposal Considerations

Product

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

Transport Information

Land transport ADR/RID (cross-border):

- ADR/RID class: -

Maritime transport IMDG:

- IMDG Class: -

- Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

- ICAO/IATA Class: -

Regulatory Information

Labelling according to EU guidelines:

- Observe the general safety regulations when handling chemicals.

- The product is not subject to identification regulations under EU Directives.

Other Information

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Fermentas is not held liable for any damage resulting from handling or from contact with the above mentioned products.

MSDS has been prepared in accordance with EC regulation 1907/2006/EC and other European Union legislation in force.

End of MSDS