

## Kit ingredients

Product: Tfx™ -20 Reagent, 1.6mg (trial size)

Product code: E2392

Substance number	Description	Count	Symbols
E239	Tfx™ -20 Reagent	1	-
E111	Nuclease Free Water	1	-



**Safety Data Sheet**  
According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

### 1 Identification of substance

**Trade name:** Tfx™ -20 Reagent

**Article number:** E239

**Application of the substance / the preparation:** Laboratory chemicals

**Manufacturer/Supplier:**

Promega Corporation  
2800 Woods Hollow Road  
Madison, WI 53711  
U.S.A.  
1-608-274-4330  
1-800-356-9526

**MSDS author:** Regulatory.Affairs@promega.com

**Further information obtainable from:**

Promega AG  
Wallisellenstrasse 55  
8600 Dübendorf  
SWITZERLAND  
Branch Office  
Marketing Area: Switzerland  
Tel: (41) 044 878 90 00  
Fax: (41) 044 878 90 10  
E-mail Address: ch\_custserv@promega.com  
Web Address: www.promega.com/ch/

**MSDS author:** Regulatory.Affairs@promega.com

**Information in case of emergency:**

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at 1-800-424-9300  
For call originating outside the United States dial 001-703-527-3887

### 2 Composition/information on ingredients

**Chemical characterization**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Components:** Void

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

### 3 Hazards identification

**Hazard description:** not applicable

**Information concerning to particular hazards to man 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.

(Contd. on page 2)

# Safety Data Sheet

## According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

**Trade name: Tfx™ -20 Reagent**

(Contd. of page 1)

**Classification system:**

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

### 4 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.

### 5 Fire fighting measures

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** No special measures required.

### 6 Accidental release measures

**Person-related safety precautions:** Not required.

**Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

**Measures for cleaning/collecting:** Pick up mechanically.

**Additional information:** No dangerous substances are released.

### 7 Handling and storage

**Handling**

**Information for safe handling:** No special measures required.

**Information about fire - and explosion protection:** The product is not flammable

**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.

### 8 Exposure controls and personal protection gear

**Additional information about design of technical facilities:** No further data; see item 7.

**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:**

Protective gloves.

(Contd. on page 3)

# Safety Data Sheet

## According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

**Trade name: Tfx™ -20 Reagent**

(Contd. of page 2)

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

**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.*

**Penetration time of glove material:**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

**Eye protection:** Not required.

### 9 Physical and chemical properties

#### General Information

<b>Form:</b>	Solid.
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic

#### 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:** Insoluble

#### Solvent content:

**Organic solvents:** 0,0 %

**Solids content:** 80,0 %

### 10 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

### 11 Toxicological information

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

(Contd. on page 4)

CH

# Safety Data Sheet

## According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

**Trade name: Tfx™ -20 Reagent**

(Contd. of page 3)

**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.

### 12 Ecological information

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (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

**Product:**

**Recommendation**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

**Land transport ADR/RID (cross-border)** Not regulated

**ADR/RID class:** -  
**UN-Number:** Not regulated

**Maritime transport IMDG:**

**IMDG Class:** -  
**Marine pollutant:** No

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

**ICAO/IATA Class:** -

### 15 Regulations

**Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

**National regulations**

**Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

CH

(Contd. on page 5)

**Safety Data Sheet**  
According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

**Trade name: Tfx™ -20 Reagent**

(Contd. of page 4)

**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**Department issuing MSDS:***Promega Corporation**Safety Department**2800 Woods Hollow Road**Madison, WI 53711**U.S.A.*

CH

**Safety Data Sheet**  
According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

\* **1 Identification of substance**

**Trade name:** Nuclease Free Water

**Article number:** E111

**Application of the substance / the preparation:** Laboratory chemicals

**Manufacturer/Supplier:**

Promega Corporation  
2800 Woods Hollow Road  
Madison, WI 53711  
U.S.A.  
1-608-274-4330  
1-800-356-9526

**MSDS author:** Regulatory.Affairs@promega.com

**Further information obtainable from:**

Promega AG  
Wallisellenstrasse 55  
8600 Dübendorf  
SWITZERLAND  
Branch Office  
Marketing Area: Switzerland  
Tel: (41) 044 878 90 00  
Fax: (41) 044 878 90 10  
E-mail Address: ch\_custserv@promega.com  
Web Address: www.promega.com/ch/

**MSDS author:** Regulatory.Affairs@promega.com

**Information in case of emergency:**

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at 1-800-424-9300  
For call originating outside the United States dial 001-703-527-3887

**2 Composition/information on ingredients**

**Chemical characterization:**

**CAS No. Description:**

7732-18-5 water, pure

**Identification number(s):**

**EEC Number:** 231-791-2

**3 Hazards identification**

**Hazard description:** not applicable

**Information concerning to particular hazards to man and environment** not applicable

(Contd. on page 2)



# Safety Data Sheet

## According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

**Trade name:** Nuclease Free Water

(Contd. of page 1)

**Classification system:**

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

### 4 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.

### 5 Fire fighting measures

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** No special measures required.

### 6 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.

### 7 Handling and storage

**Handling**

**Information for safe handling:** No special measures required.

**Information about fire - and explosion protection:** The product is not flammable

**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.

### 8 Exposure controls and personal protection gear

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:** Not required.

**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:**

Protective gloves.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 3)

# Safety Data Sheet

## According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

**Trade name: Nuclease Free Water**

(Contd. of page 2)

**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.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling.

### 9 Physical and chemical properties

#### General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Odourless

#### Change in condition

<b>Melting point/Melting range:</b>	0°C
<b>Boiling point/Boiling range:</b>	100°C

**Flash point:** Not applicable

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

**Density at 20°C:** 1 g/cm<sup>3</sup>

#### Solubility in / Miscibility with

**Water:** Fully miscible

**pH-value at 20°C:** 7

**Organic solvents:** 0,0 %

**Water:** 100,0 %

### 10 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

### 11 Toxicological information

**Acute toxicity:****Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

CH

(Contd. on page 4)

# Safety Data Sheet

## According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Nuclease Free Water

(Contd. of page 3)

### 12 Ecological information

**Additional ecological information:**

**General notes:** Generally not hazardous for water.

### 13 Disposal considerations

**Product:**

**Recommendation**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

**Land transport ADR/RID (cross-border)** Not regulated

**ADR/RID class:**

-

**UN-Number:**

Not regulated

**Maritime transport IMDG:**

**Marine pollutant:**

No

### 15 Regulations

**Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The substance is not subject to classification according to EU lists and other sources of literature known to us.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

**National regulations**

**Waterhazard class:** Generally not hazardous for water.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing MSDS:**

Promega Corporation

Safety Department

2800 Woods Hollow Road

Madison, WI 53711

U.S.A.

\* Data compared to the previous version altered.