10/20/2020	Kit Components	
Product code	Description	
E3110	HeLaScribe <sup>®</sup> Nuclear Extract in vitro Transcription System	
Components:		
A357	MgCl2, 50mM	
E361	HeLa Nuclear Extract Stop Mix	
E371	Loading Dye	
E601	rATP (100mM)	
E602	rUTP (100mM)	
E603	rGTP (100mM)	
E604	rCTP (100mM)	

Nuclease-Free Water

HeLa Nuclear Extract 1X Transcription Buffer

HeLaScribe® Nuclear Extract Trans. Grade

HeLa Nuclear Extract Positive Control DNA

P119

E360

E309

E362



#### Printing date 10/20/2020

Reviewed on 10/20/2020

1 Id	lentij	fica	tion
1 10	Chuj	<i>i</i> cui	ion

Product identifier Trade name: <u>MgCl2, 50mM</u>

*Article number:* A357 *Application of the substance / the mixture* For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0*Reactivity* = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown

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(Contd. on page 2)

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: MgCl2, 50mM

(Contd. of page 1)

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# 3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

**Dangerous components:** Not applicable **Additional information:** For the wording of the listed risk phrases refer to section 15.

# 4 First-aid measures

Description of first aid measures

General information: No special measures required. After inhalation: If the patient feels unwell or is concerned, obtain medical advice. 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 the patient feels unwell or is concerned, obtain medical advice. Information for doctor: Most important symptoms and effects, both acute and delayed None No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **5** Fire-fighting measures

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known No further relevant information available.

*Advice for firefighters No special advice Protective equipment: No special measures required.* 

# 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.Environmental precautions: Dilute with plenty of water.Methods and material for containment and cleaning up:Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).Reference to other sectionsNo dangerous substances are released.See Section 7 for information on safe handling.

(Contd. on page 3)

(Contd. of page 2)

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: MgCl2, 50mM

See Section 13 for disposal information.

#### 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities 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.

Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

#### Components 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 that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment: General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required. Protection of hands: Not required. 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:* Not required.

Information on basic physical and General Information	chemical properties	
Appearance:		
Form: Color:	Fluid Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	6.8	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: MgCl2, 50mM

	(Contd. of	page 3
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1 g/cm <sup>3</sup> (8.345 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/w		
Viscosity:	,	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Water:	99.5 %	
VOC content:	0.00 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

Information on toxicological effects Acute toxicity:

*LD/LC50 values that are relevant for classification:* No data available *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 internally approved calculation methods for preparations:

#### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

## NTP (National Toxicology Program)

None of the ingredients are listed.

(Contd. on page 5)

JS

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: MgCl2, 50mM

(Contd. of page 4)

US

# **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

#### **12 Ecological information**

#### Toxicity

Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability *Not available* No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not available. Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

#### Waste treatment methods

#### **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 packagings:

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

# 14 Transport information UN-Number Not hazardous for transportation DOT, ADR, ADN, IMDG, IATA Not applicable UN proper shipping name None DOT, ADR, ADN, IMDG, IATA Not applicable Transport hazard class(es) None DOT, ADR, ADN, IMDG, IATA Not applicable Class Not applicable

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: MgCl2, 50mM

		(Contd. of page 5)
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

Water hazard class: Generally not hazardous for water.

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: MgCl2, 50mM

(Contd. of page 6)

#### **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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 **Date of preparation / last revision** 10/20/2020 / 1.0 **Abbreviations and acronyms:** RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: Internation Civil Aviation Organization

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

\* Data compared to the previous version altered.



#### Printing date 10/20/2020

Reviewed on 10/20/2020

# 1 Identification

Product identifier Trade name: <u>HeLa Nuclear Extract Stop Mix</u>

*Article number:* E361 *Application of the substance / the mixture* For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0*Reactivity* = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown

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(Contd. on page 2)

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: HeLa Nuclear Extract Stop Mix

(Contd. of page 1)

1-5%

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

## 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

Dangerous components:

1185-53-1 Tris HCl

Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

#### Description of first aid measures

General information: No special measures required.

*After inhalation: If the patient feels unwell or is concerned, obtain medical advice.* 

*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 the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

*No further relevant information available.* 

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **5** Fire-fighting measures

 Extinguishing media

 Suitable extinguishing agents:

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

 Special hazards arising from the substance or mixture

 None known

 No further relevant information available.

 Advice for firefighters No special advice

 Protective equipment: No special measures required.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required. **Environmental precautions:** 

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

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

(Contd. on page 3)

Printing date 10/20/2020

Reviewed on 10/20/2020

#### Trade name: HeLa Nuclear Extract Stop Mix

Reference to other sections

No dangerous substances are released. See Section 7 for information on safe handling. See Section 13 for disposal information.

#### 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities 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. Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

#### Components 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 that were valid during the creation were used as basis.

#### Exposure controls

Personal protective equipment:

#### General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: Not required.

#### 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:** Not required.

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	8	
Change in condition		
Melting point/Melting range:	Undetermined.	

#### (Contd. of page 2)

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: HeLa Nuclear Extract Stop Mix

	(C	Contd. of page
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Water:	92.3 %	
VOC content:	0.00 %	
Solids content:	7.8 %	
Other information	No further relevant information available.	

# 10 Stability and reactivity

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available 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 internally approved calculation methods for preparations:

 $(Contd. \ on \ page \ 5)$ 

US

Printing date 10/20/2020

Reviewed on 10/20/2020

#### Trade name: HeLa Nuclear Extract Stop Mix

(Contd. of page 4)

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

*NTP (National Toxicology Program) None of the ingredients are listed.* 

**OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12** Ecological information

#### **Toxicity**

Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

#### **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 packagings:

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

UN-Number	Not hazardous for transportation	
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name	None	
DOT, ADR, ADN, IMDG, IATA	Not applicable	

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: HeLa Nuclear Extract Stop Mix

		(Contd. of page 5
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
UN "Model Regulation":	Not applicable	

#### **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable

(Contd. on page 7)

US

Printing date 10/20/2020

Reviewed on 10/20/2020

(Contd. of page 6)

Trade name: HeLa Nuclear Extract Stop Mix

Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.* 

# **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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 Date of preparation / last revision 10/20/2020 / 1.0 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit \* Data compared to the previous version altered.



#### Printing date 10/20/2020

Reviewed on 10/20/2020

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Product identifier Trade name: <u>Loadin</u>	Dye
Article number: E37. Application of the su	stance / the mixture For Laboratory Use
Details of the supplie Manufacturer/Suppli	of the safety data sheet er:
Promega Corporation 2800 Woods Hollow I Madison, WI 53711 U.S.A. 1-800-356-9526 or (6	oad
Promega Corporation 2800 Woods Hollow I Madison, WI 53711 U.S.A. 1-800-356-9526 or (6 Emergency telephone For Chemical Emerg and Canada: 1-800-4	Regulatory@promega.com oad 08)-274-4330 <b>number:</b> ency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within U

# 2 Hazard(s) identification

Classification of the substance or mixture



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects. Repr. 1B H360 May damage fertility or the unborn child.

#### Label elements

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms* 



Signal word Danger

*Hazard-determining components of labeling: formamide* 

(Contd. on page 2)

US

Printing date 10/20/2020

Reviewed on 10/20/2020

#### Trade name: Loading Dye

(Contd. of page 1) Hazard statements May cause genetic defects. May damage fertility or the unborn child. **Precautionary statements** *Obtain special instructions before use.* Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) *Health* = 2Fire = 1*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 2Fire = 1 Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Reproductive Hazard Target Organ(s): May affect Nervous system (Neurotoxin) May affect Reproductive System (Mutagen, Teratogen) Affects Blood (Hematopoietic system) Risk of damage to eyes **Other hazards Results of PBT and vPvB assessment** *PBT*: Not applicable. vPvB: Not applicable.

## 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### **Dangerous components:**

75-12-7 formamide

75-100%

#### Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

#### Description of first aid measures

*After inhalation: If the patient feels unwell or is concerned, obtain medical advice. After skin contact: Generally the product does not irritate the skin.* 

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

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed

None

No further relevant information available.

(Contd. on page 3)

US

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Loading Dye

#### *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

#### **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

*CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture* 

None known

No further relevant information available.

Advice for firefighters In the case of fire, wear respiratory protective equipment and chemical protective suit.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove persons from danger area.
Wear protective clothing.
Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation.
Reference to other sections
See Section 7 for information on safe handling.
See Section 13 for disposal information.

## 7 Handling and storage

Handling:

**Precautions for safe handling** Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. **Information about protection against explosions and fires:** No special measures required.

Conditions for safe storage, including any incompatibilities 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.

*Specific end use(s) No further relevant information available.* 

(Contd. on page 4)

(Contd. of page 2)

Printing date 10/20/2020

\*

Reviewed on 10/20/2020

Trade name: Loading Dye

(Contd. of page 3)

	trol parameters
	ponents with limit values that require monitoring at the workplace:
	2-7 formamide
REL	Long-term value: 15 mg/m <sup>3</sup> , 10 ppm Skin
TLV	Long-term value: 1.9 mg/m³, 1 ppm Skin
Addi	itional information: The lists that were valid during the creation were used as basis.
Evn	osure controls
	onal protective equipment:
	eral protective equipment: eral protective and hygienic measures:
	ire that washing facilities are available at the work place.
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
Store	e protective clothing separately.
Preg	nant women should strictly avoid inhalation or skin contact.
Do n	not eat or drink while working.
Brea	thing equipment:
respi	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us iratory protective device that is independent of circulating air.
	ection of hands:
	ective gloves
It is 89/6	ct the glove material considering penetration time, rate of diffusion and degradation time. recommended that the selected protective gloves be tested and approved under NIOSH or EU Directiv 86/EEC and the standard EN 374 derived from it.
	erial of gloves
varie	selection of the suitable gloves does not only depend on the material, but also on further marks of quality an es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistanc e glove material can not be calculated in advance and has therefore to be checked prior to the application.
	protection:
	ty glasses
	equipment for eye protection tested and approved under government NIOSH standards.

Information on basic physical and General Information		
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
Change in condition		
Melting point/Melting range:	2.5 °C (36.5 °F)	
Boiling point/Boiling range:	210 °C (410 °F)	
Flash point:	> 100 °C (> 212 °F)	
		(Contd. on page 5)

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Loading Dye

		(Contd. of page
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	0.03 hPa (0 mm Hg)	
Density at 20 °C (68 °F):	1.123 g/cm³ (9.37144 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:	·	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Organic solvents:	98.0 %	
Water:	1.5 %	
VOC content:	98.00 %	
Solids content:	0.5 %	
Other information	No further relevant information available.	

# 10 Stability and reactivity

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions Reacts with strong acids and alkali. Reacts with strong oxidizing agents. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: Nitrogen oxides Carbon monoxide and carbon dioxide Ammonia

# **11 Toxicological information**

Information on toxicological effects

Acute toxicity:

Oral

LD/LC50 values that are relevant for classification:

75-12-7 formamide

LD50 5,570 mg/kg (Rat)

(Contd. on page 6)

US

Printing date 10/20/2020

Reviewed on 10/20/2020

# Trade name: Loading Dye

		(Contd. of page 5)
Irritation of eyes	acute	100 mg (Rabbit)
		Severe
Primary irritant	effect:	
on the skin: No a		uilable.
on the eye: No do	ata ava	ilahle.
		zing effects known.
Additional toxice		
		ollowing dangers according to internally approved calculation methods for preparations:
1	v	nheritable damage.
I I I I I I I I I I I I I I I I I I I		
Carcinogenic ca	tegories	
	•	s ency for Research on Cancer)
	onal Ag	ency for Research on Cancer)
IARC (Internatio	onal Ag	ency for Research on Cancer) are listed.
IARC (Internation None of the ingre	o <b>nal</b> Ag edients F <b>oxicol</b> e	rency for Research on Cancer) are listed. Degy Program)
IARC (Internation None of the ingreen NTP (National T None of the ingreen	o <b>nal</b> Ag edients F <b>oxicol</b> a edients	rency for Research on Cancer) are listed. Degy Program)

# **12 Ecological information**

#### **Toxicity**

Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability *Not available* No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: No data available. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

#### Waste treatment methods

#### **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 packagings:

Recommendation: Disposal must be made according to official regulations.

(Contd. on page 7)

— US

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Loading Dye

Recommended cleansing agent: Water, if necessary with cleansing agents.

(Contd. of page 6)

#### **14 Transport information UN-Number** Not hazardous for transportation DOT, ADR, ADN, IMDG, IATA *Not applicable* UN proper shipping name None DOT, ADR, ADN, IMDG, IATA Not applicable Transport hazard class(es) None DOT, ADR, ADN, IMDG, IATA Class Not applicable Packing group None DOT, ADR, IMDG, IATA *Not applicable* Environmental hazards: Marine pollutant: No Not applicable. Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. UN "Model Regulation": Not applicable

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

(Contd. on page 8)

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: Loading Dye

(Contd. of page 7)

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS). **Signal word** Danger

Hazard-determining components of labeling:

formamide

Hazard statements

May cause genetic defects. May damage fertility or the unborn child.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.* 

# **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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 Date of preparation / last revision 10/20/2020 / 1.0 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: Internation Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

Printing date 10/20/2020

Reviewed on 10/20/2020

# Trade name: Loading Dye

(Contd. of page 8)

US

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Muta. 1B: Germ cell mutagenicity – Category 1B Repr. 1B: Reproductive toxicity – Category 1B \* Data compared to the previous version altered.



#### Printing date 10/20/2020

Reviewed on 07/07/2020

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Product identifier Trade name: <u>rATP (100mM)</u>

*Article number: E601 Application of the substance / the mixture* For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements **GHS label elements** Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0*Reactivity* = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown

(Contd. on page 2)

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rATP (100mM)

(Contd. of page 1)

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# 3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

*Dangerous components:* Not applicable *Additional information:* For the wording of the listed risk phrases refer to section 15.

## 4 First-aid measures

Description of first aid measures

General information: No special measures required. After inhalation: If the patient feels unwell or is concerned, obtain medical advice. 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 the patient feels unwell or is concerned, obtain medical advice. Information for doctor: Most important symptoms and effects, both acute and delayed None No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5** Fire-fighting measures

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known No further relevant information available. Advice for firefighters No special advice Protective equipment: No special measures required.

## 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Not required.

 Environmental precautions:

 Dilute with plenty of water.

 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

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

 Reference to other sections

 No dangerous substances are released.

(Contd. on page 3)

<sup>-</sup> US

Printing date 10/20/2020

Reviewed on 07/07/2020

(Contd. of page 2)

#### Trade name: rATP (100mM)

See Section 7 for information on safe handling. See Section 13 for disposal information.

#### 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities 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. Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

#### **Control parameters**

#### Components 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 that were valid during the creation were used as basis.

#### **Exposure** controls

Personal protective equipment: General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Not required.

**Protection of hands:** Not required.

#### 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:** Not required.

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	

US

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rATP (100mM)

	(Contd. of page 3
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water).	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Water:	94.5 %
VOC content:	0.00 %
Solids content:	10.0 %
Other information	No further relevant information available.

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available 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 internally approved calculation methods for preparations: (Contd. on page 5)

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rATP (100mM)

(Contd. of page 4)

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

*NTP (National Toxicology Program) None of the ingredients are listed.* 

**OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12 Ecological information**

#### **Toxicity**

Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

#### Waste treatment methods

#### **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 packagings:

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

UN-Number	Not hazardous for transportation	
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name	None	
DOT, ADR, ADN, IMDG, IATA	Not applicable	

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rATP (100mM)

		(Contd. of page :
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group	None	
DOT, ADR, IMDG, IATA	Not applicable	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	Not applicable	

#### **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable

(Contd. on page 7)

US

Printing date 10/20/2020

Reviewed on 07/07/2020

#### Trade name: rATP (100mM)

#### Hazard statements Not applicable

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

#### **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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 Date of preparation / last revision 10/20/2020 / 1.0 Abbreviations and acronvms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit \* Data compared to the previous version altered.

(Contd. of page 6)



#### Printing date 10/20/2020

Reviewed on 07/07/2020

1 Id	onti	fication	
1 10	enuj	ncanon	

Product identifier Trade name: <u>rUTP (100mM)</u>

*Article number: E602 Application of the substance / the mixture* For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements **GHS label elements** Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0*Reactivity* = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown

(Contd. on page 2)

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rUTP (100mM)

(Contd. of page 1)

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# 3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

**Dangerous components:** Not applicable **Additional information:** For the wording of the listed risk phrases refer to section 15.

# 4 First-aid measures

Description of first aid measures

General information: No special measures required. After inhalation: If the patient feels unwell or is concerned, obtain medical advice. 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 the patient feels unwell or is concerned, obtain medical advice. Information for doctor: Most important symptoms and effects, both acute and delayed None No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5** Fire-fighting measures

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known No further relevant information available. Advice for firefighters No special advice Protective equipment: No special measures required.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.
Environmental precautions: Dilute with plenty of water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.

(Contd. on page 3)

\_\_\_\_US

*Printing date 10/20/2020* 

Reviewed on 07/07/2020

(Contd. of page 2)

Trade name: rUTP (100mM)

See Section 13 for disposal information.

#### 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities 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.

Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

#### Components 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 that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment: General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required. Protection of hands: Not required. 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:* Not required.

Information on basic physical and General Information	chemical properties	
Appearance: Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
<i>pH-value at 20 °C (68 °F):</i>	7	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	

Printing date 10/20/2020

Reviewed on 07/07/2020

#### Trade name: rUTP (100mM)

	(Contd. c	of page
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/we	ater): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Water:	94.1 %	
VOC content:	0.00 %	
Solids content:	10.0 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: No data available

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 internally approved calculation methods for preparations:

#### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

(Contd. on page 5)

<sup>-</sup> US

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rUTP (100mM)

(Contd. of page 4)

NTP (National Toxicology Program)

None of the ingredients are listed.

## **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12 Ecological information**

#### Toxicity

Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: Remark: Not available Additional ecological information: General notes: Not available. Not known to be hazardous to water. Results of PBT and vPvB assessment *PBT:* Not applicable. **vPvB:** Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

**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 packagings:

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

	nt hazardous for transportation ot applicable
	n applicable
UN proper shipping name N	ne
DOT, ADR, ADN, IMDG, IATA N	t applicable

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rUTP (100mM)

	(Contd. of page 5
Not applicable	
None	
Not applicable	
No	
Not applicable.	
II of	
Not applicable.	
Not applicable	
	None Not applicable No Not applicable. II of Not applicable.

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

#### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

## NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

Water hazard class: Generally not hazardous for water.

(Contd. on page 7)

US

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rUTP (100mM)

(Contd. of page 6)

# **<u>16 Other information</u>**

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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 **Date of preparation / last revision** 10/20/2020 / 1.0 **Abbreviations and acronyms:** ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit \* Data compared to the previous version altered.



#### Printing date 10/20/2020

Reviewed on 07/07/2020

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1 10	Chuj	<i>i</i> cui	ion

Product identifier Trade name: <u>rGTP (100mM)</u>

*Article number: E603 Application of the substance / the mixture* For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0*Reactivity* = 0**OSHA Hazard Overview (Criteria according to 29CFR1910.1200):** Not applicable Target Organ(s): Not applicable or unknown

(Contd. on page 2)

US

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rGTP (100mM)

(Contd. of page 1)

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# 3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

*Dangerous components:* Not applicable *Additional information:* For the wording of the listed risk phrases refer to section 15.

## 4 First-aid measures

Description of first aid measures

General information: No special measures required. After inhalation: If the patient feels unwell or is concerned, obtain medical advice. 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 the patient feels unwell or is concerned, obtain medical advice. Information for doctor: Most important symptoms and effects, both acute and delayed None No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **5** Fire-fighting measures

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known No further relevant information available. Advice for firefighters No special advice Protective equipment: No special measures required.

## **6** Accidental release measures

 Personal precautions, protective equipment and emergency procedures Not required.

 Environmental precautions: Dilute with plenty of water.

 Methods and material for containment and cleaning up:

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

 Reference to other sections

 No dangerous substances are released.

 See Section 7 for information on safe handling.

(Contd. on page 3)

Printing date 10/20/2020

Reviewed on 07/07/2020

(Contd. of page 2)

Trade name: rGTP (100mM)

See Section 13 for disposal information.

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities 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.

Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

#### **Control parameters**

#### Components 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 that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment: General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required. Protection of hands: Not required. 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:* Not required.

Information on basic physical and General Information	chemical properties	
Appearance: Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
<i>pH-value at 20 °C (68 °F):</i>	7	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	

US -

Printing date 10/20/2020

Reviewed on 07/07/2020

#### Trade name: rGTP (100mM)

	(Contd. o	f page
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/we	nter): Not determined.	
Viscosity:	, ,	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Water:	94.8 %	
VOC content:	0.00 %	
Solids content:	10.0 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: No data available

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 internally approved calculation methods for preparations:

#### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

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<sup>-</sup> US

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rGTP (100mM)

(Contd. of page 4)

NTP (National Toxicology Program)

None of the ingredients are listed.

## **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12 Ecological information**

#### Toxicity

Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: Remark: Not available Additional ecological information: General notes: Not available. Not known to be hazardous to water. Results of PBT and vPvB assessment *PBT:* Not applicable. **vPvB:** Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

**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 packagings:

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

	nt hazardous for transportation of applicable
	n applicable
UN proper shipping name N	ne
DOT, ADR, ADN, IMDG, IATA N	t applicable

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rGTP (100mM)

	(Contd. of page 5
Not applicable	
None	
Not applicable	
No	
Not applicable.	
II of	
Not applicable.	
Not applicable	
	None Not applicable No Not applicable. II of Not applicable.

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

#### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

## NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

Water hazard class: Generally not hazardous for water.

(Contd. on page 7)

US

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rGTP (100mM)

(Contd. of page 6)

# **<u>16 Other information</u>**

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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 **Date of preparation / last revision** 10/20/2020 / 1.0 **Abbreviations and acronyms:** ADR: Accord européen sur le transport des marchandises dangereuses par Rou

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit \* Data compared to the previous version altered.



#### Printing date 10/20/2020

Reviewed on 07/07/2020

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Product identifier Trade name: <u>rCTP (100mM)</u>

*Article number: E604 Application of the substance / the mixture* For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements **GHS label elements** Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0*Reactivity* = 0**OSHA Hazard Overview (Criteria according to 29CFR1910.1200):** Not applicable Target Organ(s): Not applicable or unknown

(Contd. on page 2)

US

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rCTP (100mM)

(Contd. of page 1)

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# 3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

*Dangerous components:* Not applicable *Additional information:* For the wording of the listed risk phrases refer to section 15.

## 4 First-aid measures

Description of first aid measures

General information: No special measures required. After inhalation: If the patient feels unwell or is concerned, obtain medical advice. 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 the patient feels unwell or is concerned, obtain medical advice. Information for doctor: Most important symptoms and effects, both acute and delayed None No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5** Fire-fighting measures

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known No further relevant information available. Advice for firefighters No special advice Protective equipment: No special measures required.

## 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Not required.

 Environmental precautions:

 Dilute with plenty of water.

 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

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

 Reference to other sections

 No dangerous substances are released.

(Contd. on page 3)

<sup>-</sup> US

Printing date 10/20/2020

Reviewed on 07/07/2020

(Contd. of page 2)

## Trade name: rCTP (100mM)

See Section 7 for information on safe handling. See Section 13 for disposal information.

#### 7 Handling and storage

#### Handling:

Precautions for safe handling No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities 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. Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

#### *Control parameters*

#### *Components 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 that were valid during the creation were used as basis.

#### **Exposure** controls

Personal protective equipment: General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. **Breathing equipment:** Not required. **Protection of hands:** Not required. 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:* Not required.

Information on basic physical and General Information	chemical properties	
Appearance: Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	

US

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rCTP (100mM)

	(Cont	d. of page
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	•	
Viscosity:	,	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Water:	94.7 %	
VOC content:	0.00 %	
Solids content:	10.0 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available 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 internally approved calculation methods for preparations: (Contd. on page 5)

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rCTP (100mM)

(Contd. of page 4)

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

*NTP (National Toxicology Program) None of the ingredients are listed.* 

**OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12 Ecological information**

#### **Toxicity**

Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

#### Waste treatment methods

#### **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 packagings:

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

UN-Number	Not hazardous for transportation	
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name	None	
DOT, ADR, ADN, IMDG, IATA	Not applicable	

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rCTP (100mM)

		(Contd. of page
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group	None	
DOT, ADR, IMDG, IATA	Not applicable	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

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

(Contd. on page 7)

US

Printing date 10/20/2020

Reviewed on 07/07/2020

Trade name: rCTP (100mM)

(Contd. of page 6)

# **<u>16 Other information</u>**

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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 **Date of preparation / last revision** 10/20/2020 / 1.0 **Abbreviations and acronyms:** ADR: Accord européen sur le transport des marchandises dangereuses par Rou.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit \* Data compared to the previous version altered.



Printing date 10/20/2020

Reviewed on 08/28/2020

Page 1/7

## **1** Identification

Product identifier Trade name: Nuclease-Free Water

Article number: P119 CAS Number: 7732-18-5 EC number: 231-791-2 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

*Classification of the substance or mixture The substance is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 0 Fire = 0 Reactivity = 0

(Contd. on page 2)

US

Printing date 10/20/2020

Reviewed on 08/28/2020

Trade name: Nuclease-Free Water

OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# 3 Composition/information on ingredients

Chemical characterization: Substances CAS No. Description 7732-18-5 water Identification number(s) EC number: 231-791-2

## 4 First-aid measures

Description of first aid measuresGeneral information: No special measures required.After inhalation: If the patient feels unwell or is concerned, obtain medical advice.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 the patient feels unwell or is concerned, obtain medical advice.Information for doctor:Most important symptoms and effects, both acute and delayedNoneNo further relevant information available.Indication of any immediate medical attention and special treatment neededNo further relevant information available.

## **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture

None known

No further relevant information available.

Advice for firefighters No special advice

Protective equipment: No special measures required.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.Environmental precautions: Dilute with plenty of water.Methods and material for containment and cleaning up:Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).Reference to other sectionsNo dangerous substances are released.See Section 7 for information on safe handling.

(Contd. of page 1)

(Contd. on page 3)

US

(Contd. of page 2)

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/20/2020

Reviewed on 08/28/2020

Trade name: Nuclease-Free Water

See Section 13 for disposal information.

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities 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. Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

**Control parameters** 

*Components with limit values that require monitoring at the workplace: Not required. Additional information: The lists that were valid during the creation were used as basis.* 

Exposure controls Personal protective equipment: General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required. Protection of hands: Not required. 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. Eye protection: Not required.

Information on basic physical and	chemical properties	
General Information		
Appearance: Form:	Fluid	
Color:	Colorless	
Odor:	Odorless	
Odor threshold:	Not determined.	
Change in condition		
<i>Melting point/Melting range:</i>	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	

Printing date 10/20/2020

Reviewed on 08/28/2020

## Trade name: Nuclease-Free Water

		(Contd. of page
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1 g/cm <sup>3</sup> (8.345 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/we	uter): Not determined.	
Viscosity:		
Dynamic at 20 °C (68 °F):	0.0952 mPas	
Kinematic:	Not determined.	
Water:	100.0 %	
VOC content:	0.00 %	
Solids content:	0.0 %	
Other information	No further relevant information available.	

## **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The substance is not subject to classification.

#### Carcinogenic categories

IARC (International Agency for Research on Cancer)

Substance is not listed.

NTP (National Toxicology Program)

Substance is not listed.

#### **OSHA-Ca** (Occupational Safety & Health Administration)

Substance is not listed.

(Contd. on page 5)

Printing date 10/20/2020

Reviewed on 08/28/2020

#### Trade name: Nuclease-Free Water

(Contd. of page 4)

# **12 Ecological information**

**Toxicity** Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability *Not available* No further relevant information available. Bioaccumulative potential Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: *Remark:* Not available Additional ecological information: General notes: Not available. Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

## Waste treatment methods

#### **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 packagings:

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

UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable	
UN proper shipping name DOT, ADR, IMDG, IATA ADN	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	

JS -

Printing date 10/20/2020

Reviewed on 08/28/2020

Trade name: Nuclease-Free Water

		(Contd. of page 5)
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex L MARPOL73/78 and the IBC Code	<b>I of</b> Not applicable.	
UN "Model Regulation":	Not applicable	

## **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act) Inventory:

Substance is listed.

Hazardous Air Pollutants

Substance is not listed.

Proposition 65

Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

*Water hazard class:* Generally not hazardous for water. *Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

(Contd. on page 7)

Printing date 10/20/2020

Reviewed on 08/28/2020

#### Trade name: Nuclease-Free Water

(Contd. of page 6)

## **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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison. WI Ph:(608)274-4330 Date of preparation / last revision 10/20/2020 / 1.0 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit \* Data compared to the previous version altered.



#### Printing date 10/20/2020

Reviewed on 10/20/2020

# **1 Identification**

Product identifier Trade name: <u>HeLa Nuclear Extract 1X Transcription Buffer</u>

Article number: E360 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements **GHS label elements** Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 1*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 1 *Reactivity* = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown

(Contd. on page 2)

Printing date 10/20/2020

Reviewed on 10/20/2020

Trade name: HeLa Nuclear Extract 1X Transcription Buffer

(Contd. of page 1)

15-20%

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

## 3 Composition/information on ingredients

## Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

Dangerous components:

56-81-5 glycerol

Additional information: For the wording of the listed risk phrases refer to section 15.

## 4 First-aid measures

#### Description of first aid measures

General information: No special measures required.

*After inhalation: If the patient feels unwell or is concerned, obtain medical advice.* 

*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 the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **5** Fire-fighting measures

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known No further relevant information available. Advice for firefighters No special advice Protective equipment: No special measures required.

# 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required. **Environmental precautions:** 

Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:

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

 $(Contd. \ on \ page \ 3)$ 

US

Printing date 10/20/2020

Reviewed on 10/20/2020

(Contd. of page 2)

#### Trade name: HeLa Nuclear Extract 1X Transcription Buffer

Reference to other sections

No dangerous substances are released. See Section 7 for information on safe handling. See Section 13 for disposal information.

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** No special measures required.

Conditions for safe storage, including any incompatibilities 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.

Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

56-81-5 glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

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

#### Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

**Protection of hands:** Not required.

## 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:** Not required.

## 9 Physical and chemical properties

Information on basic physical and chemical propertiesGeneral InformationAppearance:Form:FluidColor:ColorlessOdor:Not determinedOdor threshold:Not determined.

(Contd. on page 4)

US

Printing date 10/20/2020

Reviewed on 10/20/2020

#### Trade name: HeLa Nuclear Extract 1X Transcription Buffer

		(Contd. of page
pH-value at 20 °C (68 °F):	7.9	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	> 100 °C (> 212 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	400 °C (752 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	0.9 Vol %	
Upper:	0.0 Vol %	
Vapor pressure at 20 °C (68 °F):	0.1 hPa	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Organic solvents:	20.0 %	
Water:	78.7 %	
VOC content:	0.00 %	
Solids content:	0.8 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect.

(Contd. on page 5)

US

Printing date 10/20/2020

Reviewed on 10/20/2020

#### Trade name: HeLa Nuclear Extract 1X Transcription Buffer

(Contd. of page 4)

on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

## Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

**OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12 Ecological information**

#### Toxicity

Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability *Not available* No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

#### **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 packagings:

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

(Contd. on page 6)

Printing date 10/20/2020

Reviewed on 10/20/2020

#### Trade name: HeLa Nuclear Extract 1X Transcription Buffer

(Contd. of page 5)

4 Transport information	
UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	None Not applicable
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	l of Not applicable.
UN "Model Regulation":	Not applicable

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

## Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

(Contd. on page 7)

US

Printing date 10/20/2020

Reviewed on 10/20/2020

#### Trade name: HeLa Nuclear Extract 1X Transcription Buffer

(Contd. of page 6)

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

**GHS label elements** Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330

**Date of preparation / last revision** 10/20/2020 / 1.0

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: Internation Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

\* Data compared to the previous version altered.



#### Printing date 10/20/2020

Reviewed on 10/07/2020

# 1 Identification

Product identifier Trade name: <u>HeLaScribe®</u> Nuclear Extract Trans. Grade

Article number: E309 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements **GHS label elements** Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 1Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): May cause Kidney damage (Nephrotoxin) (Contd. on page 2)

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Printing date 10/20/2020

Reviewed on 10/07/2020

## Trade name: HeLaScribe® Nuclear Extract Trans. Grade

(Contd. of page 1)

20-25%

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

## 3 Composition/information on ingredients

## Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

Dangerous components:

56-81-5 glycerol

Additional information: For the wording of the listed risk phrases refer to section 15.

## 4 First-aid measures

#### Description of first aid measures

General information: No special measures required.

*After inhalation: If the patient feels unwell or is concerned, obtain medical advice.* 

*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 the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **5** Fire-fighting measures

**Extinguishing media** Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known

No further relevant information available.

Advice for firefighters No special advice

Protective equipment: No special measures required.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required. **Environmental precautions:** 

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

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

(Contd. on page 3)

US

Printing date 10/20/2020

Reviewed on 10/07/2020

(Contd. of page 2)

## Trade name: HeLaScribe® Nuclear Extract Trans. Grade

Reference to other sections

No dangerous substances are released. See Section 7 for information on safe handling. See Section 13 for disposal information.

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities 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.

*Specific end use(s) No further relevant information available.* 

## 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

56-81-5 glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

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

#### Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

**Protection of hands:** Not required.

## 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:** Not required.

## 9 Physical and chemical properties

Information on basic physical and chemical propertiesGeneral InformationAppearance:Form:FluidColor:ColorlessOdor:Not determinedOdor threshold:Not determined.

(Contd. on page 4)

US

Printing date 10/20/2020

Reviewed on 10/07/2020

#### Trade name: HeLaScribe® Nuclear Extract Trans. Grade

	(Contd. of page
pH-value at 20 °C (68 °F):	7.8
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	400 °C (752 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	0.9 Vol %
Upper:	0.0 Vol %
Vapor pressure at 20 °C (68 °F):	0.1 hPa
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	25.0 %
Water:	72.6 %
VOC content:	0.00 %
Other information	No further relevant information available.

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect.

(Contd. on page 5)

<sup>-</sup> US

Printing date 10/20/2020

Reviewed on 10/07/2020

## Trade name: HeLaScribe® Nuclear Extract Trans. Grade

(Contd. of page 4)

# Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

#### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

## **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

## **12 Ecological information**

**Toxicity** Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: Remark: Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

#### **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 packagings:

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

# **14 Transport information**

**UN-Number** 

Not hazardous for transportation

US

Printing date 10/20/2020

Reviewed on 10/07/2020

Trade name: HeLaScribe® Nuclear Extract Trans. Grade

		(Contd. of page
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

56-81-5 glycerol

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

(Contd. on page 7)

<sup>-</sup> US

Printing date 10/20/2020

Reviewed on 10/07/2020

#### Trade name: HeLaScribe® Nuclear Extract Trans. Grade

(Contd. of page 6)

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

# **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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 Date of preparation / last revision 10/20/2020 / 1.0 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: Internation Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit \* Data compared to the previous version altered.



#### Printing date 10/20/2020

Reviewed on 10/20/2020

# **1 Identification**

Product identifier Trade name: <u>HeLa Nuclear Extract Positive Control DNA</u>

Article number: E362 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

#### Information department:

SDS author: ChemicalRegulatory@promega.com Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements **GHS label elements** Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0*Reactivity* = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown

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#### Trade name: HeLa Nuclear Extract Positive Control DNA

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Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# 3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is made up of a mixture of non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

*Dangerous components:* Not applicable *Additional information:* For the wording of the listed risk phrases refer to section 15.

## 4 First-aid measures

Description of first aid measures

General information: No special measures required. After inhalation: If the patient feels unwell or is concerned, obtain medical advice. 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 the patient feels unwell or is concerned, obtain medical advice. Information for doctor: Most important symptoms and effects, both acute and delayed None No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **5** Fire-fighting measures

*Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known No further relevant information available.* 

Advice for firefighters No special advice

Protective equipment: No special measures required.

# 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.Environmental precautions: Dilute with plenty of water.Methods and material for containment and cleaning up:Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).Reference to other sectionsNo dangerous substances are released.See Section 7 for information on safe handling.

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See Section 13 for disposal information.

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities 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.

Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

#### Components 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 that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment: General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required. Protection of hands: Not required. 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:* Not required.

Information on basic physical and General Information	chemical properties	
Appearance: Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
<i>pH-value at 20 °C (68 °F):</i>	7.4	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	

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## Trade name: HeLa Nuclear Extract Positive Control DNA

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Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1 g/cm <sup>3</sup> (8.345 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wo	tter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Water:	99.8 %	
VOC content:	0.00 %	
Solids content:	0.1%	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: No data available

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 internally approved calculation methods for preparations:

#### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

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NTP (National Toxicology Program)

None of the ingredients are listed.

## OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12 Ecological information**

#### Toxicity

Aquatic toxicity: *Not available* No further relevant information available. Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: Remark: Not available Additional ecological information: General notes: Not available. Not known to be hazardous to water. Results of PBT and vPvB assessment *PBT:* Not applicable. **vPvB:** Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

#### Waste treatment methods

**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 packagings:

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

# 14 Transport information UN-Number Not hazardous for transportation DOT, ADR, ADN, IMDG, IATA Not applicable UN proper shipping name None DOT, ADR, ADN, IMDG, IATA Not applicable Transport hazard class(es) None (Contd. on page 6)

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Trade name: HeLa Nuclear Extract Positive Control DNA

		(Contd. of page
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group	None	
DOT, ADR, IMDG, IATA	Not applicable	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL 73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

## TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

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Trade name: HeLa Nuclear Extract Positive Control DNA

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National regulations: No information available

*Water hazard class: Generally not hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.* 

## **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 SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330

Date of preparation / last revision 10/20/2020 / 1.0

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IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

*PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative* 

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

\* Data compared to the previous version altered.