12.01.2024 **Kit components**

Product code	Description
G8742	**CellTox™ Green Cytotoxicity Assay, 50 ml**

Components:

G873A	CellTox™ Green Dye 1000x
G182	Lysis Solution 10X
G610	Assay Buffer

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 11.01.2024*

*
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Trade name: CellTox™ Green Dye 1000x
Article number: G873A

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the preparation: Laboratory chemicals

1.3 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
SDS author: chemicalregulatory@promega.com

Further information obtainable from:
Promega UK
2 Benham Road
Southampton Science Park
Chilworth Southampton
Hampshire SO16 7QJ
Tel: (44) 23 8076 0225
Fax: 0800 181 037
Freephone: 0800 378994
E-mail Address: ukcustserve@promega.com

1.4 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). Within UK +(44)-870-8200418.

*
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008



Acute Tox. 4 H312 Harmful in contact with skin.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the GB CLP regulation.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 11.01.2024*

Trade name: CellTox™ Green Dye 1000x

(Contd. of page 1)

Hazard pictograms



GHS07

Signal word *Warning*

Hazard-determining components of labelling:
dimethyl sulfoxide
Hazard statements
H312 Harmful in contact with skin.
Precautionary statements
P280 Wear protective gloves / protective clothing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P312 Call a POISON CENTER/doctor if you feel unwell.
P321 Specific treatment (see on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: *Not applicable.*
vPvB: *Not applicable.*

*
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description:
The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances.

Components:			
CAS: 67-68-5 *EINECS: 200-664-3*	*dimethyl sulfoxide*	*Acute Tox. 4, H312*	*75-100%*

Additional information: *For the wording of the listed hazard phrases refer to section 15*

*
SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation: *If the patient feels unwell or is concerned, obtain medical advice.*
After skin contact: *Immediately wash with soap, water and rinse thoroughly.*
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.*
4.2 Most important symptoms and effects, both acute and delayed
Dizziness
None
No further relevant information available.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 11.01.2024*

Trade name: CellTox™ Green Dye 1000x

(Contd. of page 2)

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

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: *Use fire extinguishing methods suitable to surrounding conditions.*
5.2 Special hazards arising from the substance or mixture
None known
No further relevant information available.
5.3 Advice for firefighters *No special advice.*

*
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove persons from danger area.
Wear protective clothing.
6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
6.3 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.
6.4 Reference to other sections
See Section 7 for information on safe handling
See Section 13 for disposal information.

*
SECTION 7: Handling and storage

7.1 Precautions for safe handling *No special precautions are necessary if used correctly.*
Information about fire - and explosion protection: *No special measures required.*

7.2 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.*
7.3 Specific end use(s) *No further relevant information available.*

*
SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Additional information about design of technical facilities: *No further data; see section 7.*
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: *The lists valid during the making were used as basis.*

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 11.01.2024*

Trade name: CellTox™ Green Dye 1000x

(Contd. of page 3)

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Clean skin thoroughly immediately after handling the product.
Respiratory protection: *Not required.*
Protection of hands:
Use gloves, classified under Standard EN374, which are chemically resistant to this material in the event of contact. When prolonged or repeated contact may occur, EN 374 recommends gloves with a break time of more than 240 minutes. When only a short contact is expected, gloves with a head length of more than 60 minutes are considered sufficient.
Despite the simple approach in Section 8.2.2.2 (b) (i) of UK REACH, the thickness of the gloves alone is not a good indicator of the level of protection provided by gloves against a chemical substance as the level of protection provided depends also very much on. the specific composition of the material from which the glove is made.
Material of gloves:
Gloves impermeable to the specific chemical substance.
Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of suitable gloves depends not only on the material, but also on additional quality marks and varies from manufacturer to manufacturer. Because the product is a preparation for some substances, the resistance of the glove material cannot be calculated in advance so it must be checked before application.
Eye protection: *Use equipment for eye protection tested and approved under government NIOSH standards.*

*
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	*Fluid*
Colour:	*Colourless*
Odour:	*Not determined*
Odour threshold:	*Not determined.*
Change in condition	
Melting point/freezing point:	*18.45 °C*
Initial boiling point and boiling range:	*189 °C*
Flash point:	*87 °C*
Flammability (solid, gaseous)	*Not applicable.*
Auto-ignition temperature:	*270 °C*
Decomposition temperature:	*Not determined.*
Ignition temperature:	*Product is not selfigniting.*
Explosive properties:	*Product does not present an explosion hazard.*

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: CellTox™ Green Dye 1000x

(Contd. of page 4)

Explosion limits:	
Lower:	1.8 Vol %
Upper:	Zers Vol %
Vapour pressure at 20 °C:	2.5 hPa
Density at 20 °C:	1.1 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
dynamic at 20 °C:	198 mPas
kinematic:	Not determined.
Solvent separation test	
Organic solvents:	99.0 %
Solids content:	5.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions No dangerous reactions known
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials:
Oxidizing agents
Strong acids
Strong reducing agents
10.6 Hazardous decomposition products: No dangerous decomposition products known

*
SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
Harmful in contact with skin.
LD/LC50 values relevant for classification: No data available
Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Additional toxicological information:
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 Version number 8.0 Revision: 11.01.2024

Trade name: CellTox™ Green Dye 1000x

(Contd. of page 5)

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: Not harmful to the aquatic environment
12.2 Persistence and degradability:
Not available
No further relevant information available.
12.3 Bioaccumulative potential
Not known
No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Ecotoxical effects:
Remark: Not available
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Other adverse effects No further relevant information available.

*

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

14.1 UN-Number	Not hazardous for transportation
ADR, ADN, IMDG, IATA	Not applicable
14.2 UN proper shipping name	None
ADR, ADN, IMDG, IATA	Not applicable
14.3 Transport hazard class(es)	None
ADR, IMDG, IATA	
Class	Not applicable
ADN	
ADN/R Class:	Not applicable Not regulated
14.4 Packing group	None
ADR, IMDG, IATA	Not applicable

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 11.01.2024*

Trade name: CellTox™ Green Dye 1000x

(Contd. of page 6)

14.5 Environmental hazards:	
Marine pollutant:	*No*
14.6 Special precautions for user	*Not applicable.*
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	*Not applicable.*
UN "Model Regulation":	*Not applicable*

*
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Poisons Act

Regulated explosives precursors
None of the ingredients is listed.

Regulated poisons
None of the ingredients is listed.

Reportable explosives precursors
None of the ingredients is listed.

Reportable poisons
None of the ingredients is listed.

Directive 2012/18/EU
Named dangerous substances - ANNEX I *None of the ingredients is listed.*

Classification according to VbF: *Not applicable*

Class	Share in %
NK	99.0

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

*
SECTION 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.

Relevant phrases
H312 Harmful in contact with skin.

Department issuing SDS:
Promega Corporation
Chemical Regulatory Affairs
2800 Woods Hollow Road
Madison, WI 53711
U.S.A.

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: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 11.01.2024*

Trade name: CellTox™ Green Dye 1000x

(Contd. of page 7)

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 5.0* *Revision: 03.01.2024*

*
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Trade name: Lysis Solution 10X
Article number: *G182*

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the preparation: *Laboratory chemicals*

1.3 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
SDS author: chemicalregulatory@promega.com

Further information obtainable from:
Promega UK
2 Benham Road
Southampton Science Park
Chilworth Southampton
Hampshire SO16 7QJ
Tel: (44) 23 8076 0225
Fax: 0800 181 037
Freephone: 0800 378994
E-mail Address: ukcustserve@promega.com

1.4 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). Within UK +(44)-870-8200418.

*
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
The product is not classified, according to the GB CLP regulation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 *Not applicable*
Hazard pictograms *Not applicable*
Signal word *Not applicable*
Hazard statements *Not applicable*
Additional information:
Safety data sheet available on request.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: *Not applicable.*

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 5.0* *Revision: 03.01.2024*

Trade name: Lysis Solution 10X

(Contd. of page 1)

vPvB: *Not applicable.*

*
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description:
The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances.

Components:			
9002-93-1	*Octoxynol 9*	*Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319*	*≥5-<10%*

SVHC	
9002-93-1	*Octoxynol 9*

Additional information: *For the wording of the listed hazard phrases refer to section 15*

*
SECTION 4: First aid measures

4.1 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 eye contact: *Rinse opened eye for several minutes under running water.*
After swallowing: *If the patient feels unwell or is concerned, obtain medical advice.*
4.2 Most important symptoms and effects, both acute and delayed
Dizziness
None
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

*
SECTION 5: Firefighting measures

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

*
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove persons from danger area.
Wear protective clothing.
6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
6.4 Reference to other sections
No dangerous substances are released.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 5.0* *Revision: 03.01.2024*

Trade name: Lysis Solution 10X

(Contd. of page 2)

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

*
SECTION 7: Handling and storage

7.1 Precautions for safe handling *No special precautions are necessary if used correctly.*
Information about fire - and explosion protection: *No special measures required.*

7.2 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.*
7.3 Specific end use(s) *No further relevant information available.*

*
SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Additional information about design of technical facilities: *No further data; see section 7.*
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: *The lists valid during the making were used as basis.*

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures *Wash hands before breaks and at the end of work.*
Respiratory protection: *Not required.*
Protection of hands:
Select the glove material considering penetration time, rate of diffusion and degradation time.
Use gloves, classified under Standard EN374, which are chemically resistant to this material in the event of contact. When prolonged or repeated contact may occur, EN 374 recommends gloves with a break time of more than 240 minutes. When only a short contact is expected, gloves with a head length of more than 60 minutes are considered sufficient.
Despite the simple approach in Section 8.2.2.2 (b) (i) of UK REACH, the thickness of the gloves alone is not a good indicator of the level of protection provided by gloves against a chemical substance as the level of protection provided depends also very much on. the specific composition of the material from which the glove is made.
Material of gloves:
Gloves impermeable to the specific chemical substance.
Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of suitable gloves depends not only on the material, but also on additional quality marks and varies from manufacturer to manufacturer. Because the product is a preparation for some substances, the resistance of the glove material cannot be calculated in advance so it must be checked before application.
Eye protection: *Use equipment for eye protection tested and approved under government NIOSH standards.*

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 Version number 5.0 Revision: 03.01.2024

Trade name: Lysis Solution 10X

(Contd. of page 3)

*
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Not determined
Odour threshold:	Not determined.
pH-value at 20 °C:	7
Change in condition	
Melting point/freezing point:	undetermined
Initial boiling point and boiling range:	100 °C
Flash point:	191 °C
Flammability (solid, gaseous)	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.0063 g/cm³
Relative density	Not determined.
Vapour 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.
Solvent separation test	
Organic solvents:	9.0 %
Water:	91.0 %
Solids content:	9.0 %
9.2 Other information	No further relevant information available.

*
SECTION 10: Stability and reactivity

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

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 Version number 5.0 Revision: 03.01.2024

Trade name: Lysis Solution 10X

(Contd. of page 4)

10.6 Hazardous decomposition products: *No dangerous decomposition products known*

*
SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity *Based on available data, the classification criteria are not met.*
LD/LC50 values relevant for classification: *No data available*
Primary irritant effect:
Skin corrosion/irritation *Based on available data, the classification criteria are not met.*
Serious eye damage/irritation *Based on available data, the classification criteria are not met.*
Respiratory or skin sensitisation *Based on available data, the classification criteria are not met.*
Additional toxicological information:
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Germ cell mutagenicity *Based on available data, the classification criteria are not met.*
Carcinogenicity *Based on available data, the classification criteria are not met.*
Reproductive toxicity *Based on available data, the classification criteria are not met.*
STOT-single exposure *Based on available data, the classification criteria are not met.*
STOT-repeated exposure *Based on available data, the classification criteria are not met.*
Aspiration hazard *Based on available data, the classification criteria are not met.*

*
SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: *Not harmful to the aquatic environment*
12.2 Persistence and degradability:
Not available
No further relevant information available.
12.3 Bioaccumulative potential
Not known
No further relevant information available.
12.4 Mobility in soil *No further relevant information available.*
Ecotoxical effects:
Remark: *Not available*
12.5 Results of PBT and vPvB assessment
PBT: *Not applicable.*
vPvB: *Not applicable.*
12.6 Other adverse effects *No further relevant information available.*

*
SECTION 13: Disposal considerations

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

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 Version number 5.0 Revision: 03.01.2024

Trade name: Lysis Solution 10X

(Contd. of page 5)

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

*
SECTION 14: Transport information

14.1 UN-Number	Not hazardous for transportation
ADR, ADN, IMDG, IATA	Not applicable
14.2 UN proper shipping name	None
ADR, ADN, IMDG, IATA	Not applicable
14.3 Transport hazard class(es)	None
ADR, IMDG, IATA	
Class	Not applicable
ADN	
ADN/R Class:	Not applicable Not regulated
14.4 Packing group	None
ADR, IMDG, IATA	Not applicable
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
UN "Model Regulation":	Not applicable

*
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Poisons Act

Regulated explosives precursors
None of the ingredients is listed.

Regulated poisons
None of the ingredients is listed.

Reportable explosives precursors
None of the ingredients is listed.

Reportable poisons
None of the ingredients is listed.

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)		
9002-93-1	Octoxynol 9	Sunset date: 2021-01-04

Classification according to VbF: Not applicable

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 5.0* *Revision: 03.01.2024*

Trade name: Lysis Solution 10X

(Contd. of page 6)

Class	Share in %
Wasser	91.0
NK	9.0

Waterhazard class: *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to UK REACH	
9002-93-1	Octoxynol 9

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

*
SECTION 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.

Relevant phrases
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Department issuing SDS:
Promega Corporation
Chemical Regulatory Affairs
2800 Woods Hollow Road
Madison, WI 53711
U.S.A.

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: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
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CAS: Chemical Abstracts Service (division of the American Chemical Society)
VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 03.01.2024*

*
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Trade name: ***Assay Buffer***
Article number: *G610*

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the preparation: *Laboratory chemicals*

1.3 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
SDS author: chemicalregulatory@promega.com

Further information obtainable from:
Promega UK
2 Benham Road
Southampton Science Park
Chilworth Southampton
Hampshire SO16 7QJ
Tel: (44) 23 8076 0225
Fax: 0800 181 037
Freephone: 0800 378994
E-mail Address: ukcustserve@promega.com

1.4 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). Within UK +(44)-870-8200418.

*
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
The product is not classified, according to the GB CLP regulation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 *Not applicable*
Hazard pictograms *Not applicable*
Signal word *Not applicable*
Hazard statements *Not applicable*
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: *Not applicable.*

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 03.01.2024*

Trade name: Assay Buffer

(Contd. of page 1)

vPvB: *Not applicable.*

*
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description:
The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances.

Components: *Not applicable*
Additional information: *For the wording of the listed hazard phrases refer to section 15*

*
SECTION 4: First aid measures

4.1 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.*
4.2 Most important symptoms and effects, both acute and delayed
Dizziness
None
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

*
SECTION 5: Firefighting measures

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

*
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures *Not required.*
6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
6.4 Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 03.01.2024*

Trade name: Assay Buffer

(Contd. of page 2)

See Section 13 for disposal information.

*
SECTION 7: Handling and storage

7.1 Precautions for safe handling *No special measures required.*
Information about fire - and explosion protection: *The product is not flammable*

7.2 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.*
7.3 Specific end use(s) *No further relevant information available.*

*
SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Additional information about design of technical facilities: *No further data; see section 7.*
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: *The lists valid during the making were used as basis.*

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection: *Not required.*
Protection of hands:
Select the glove material considering penetration time, rate of diffusion and degradation time.
Material of gloves:
Gloves impermeable to the specific chemical substance.
Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of suitable gloves depends not only on the material, but also on additional quality marks and varies from manufacturer to manufacturer. Because the product is a preparation for some substances, the resistance of the glove material cannot be calculated in advance so it must be checked before application.
Eye protection: *Not required.*

*
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	*Fluid*
Colour:	*Colourless*
Odour:	*Not determined*

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 03.01.2024*

Trade name: Assay Buffer

(Contd. of page 3)

Odour threshold:	Not determined.
pH-value at 20 °C:	7.5
Change in condition	
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	100 °C
Flash point:	Not applicable
Flammability (solid, gaseous)	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.007 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
dynamic at 20 °C:	0.0952 mPas
kinematic:	Not determined.
Solvent separation test	
Water:	97.2 %
Solids content:	25.9 %
9.2 Other information	No further relevant information available.

*
SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification: No data available
Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Based on available data, the classification criteria are not met.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 03.01.2024*

Trade name: Assay Buffer

(Contd. of page 4)

Respiratory or skin sensitisation *Based on available data, the classification criteria are not met.*
Additional toxicological information:
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Germ cell mutagenicity *Based on available data, the classification criteria are not met.*
Carcinogenicity *Based on available data, the classification criteria are not met.*
Reproductive toxicity *Based on available data, the classification criteria are not met.*
STOT-single exposure *Based on available data, the classification criteria are not met.*
STOT-repeated exposure *Based on available data, the classification criteria are not met.*
Aspiration hazard *Based on available data, the classification criteria are not met.*

*
SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: *Not harmful to the aquatic environment*
12.2 Persistence and degradability:
Not available
No further relevant information available.
12.3 Bioaccumulative potential
Not known
No further relevant information available.
12.4 Mobility in soil *No further relevant information available.*
Ecotoxical effects:
Remark: *Not available*
Additional ecological information:
General notes: *Not known to be hazardous to water.*
12.5 Results of PBT and vPvB assessment
PBT: *Not applicable.*
vPvB: *Not applicable.*
12.6 Other adverse effects *No further relevant information available.*

*
SECTION 13: Disposal considerations

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

*
SECTION 14: Transport information

14.1 UN-Number	*Not hazardous for transportation*
ADR, ADN, IMDG, IATA	*Not applicable*
14.2 UN proper shipping name	*None*
ADR, ADN, IMDG, IATA	*Not applicable*
14.3 Transport hazard class(es)	*None*

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 03.01.2024*

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(Contd. of page 5)

ADR, IMDG, IATA	
Class	*Not applicable*
ADN	
ADN/R Class:	*Not applicable* *Not regulated*
14.4 Packing group	*None*
ADR, IMDG, IATA	*Not applicable*
14.5 Environmental hazards:	
Marine pollutant:	*No*
14.6 Special precautions for user	*Not applicable.*
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	*Not applicable.*
UN "Model Regulation":	*Not applicable*

*
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Poisons Act

Regulated explosives precursors
None of the ingredients is listed.

Regulated poisons
None of the ingredients is listed.

Reportable explosives precursors
None of the ingredients is listed.

Reportable poisons
None of the ingredients is listed.

Directive 2012/18/EU
Named dangerous substances - ANNEX I *None of the ingredients is listed.*

Classification according to VbF: *Not applicable*

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

*
SECTION 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 Affairs
2800 Woods Hollow Road
Madison, WI 53711
U.S.A.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.01.2024 *Version number 8.0* *Revision: 03.01.2024*

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(Contd. of page 6)

Abbreviations and acronyms:

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