



This document contains Safety Data Sheets for the following kit components:

1. Bead Priming Buffer
2. Hybridisation Buffer
3. Wash Buffer
4. Cot Human DNA
5. Blockers
6. Formamide
7. Nuclease-free Water



ACCORDING TO US CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Bead Priming Buffer
Product code 502002 CytoSure™ NGS Hybridisation & Wash Kit
CAS No. Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Analytical reagent. For research use only.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Oxford Gene Technology Inc.
(North America office)
520 White Plains Road, Suite 500
Tarrytown, NY 10591
Telephone 914 467 5285
E-mail support@ogt.com

1.4 Emergency telephone number

Company 914 467 5285

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200 Not classified as dangerous for supply/use.

2.2 Label elements

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Bead Priming Buffer
Hazard Pictogram(s) None.
Signal Word(s) None.
Hazard Statement(s) None.
Precautionary Statement(s) None.

2.3 Other hazards

None known.

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

No classifiable hazardous ingredient(s).

3.1 Substances

Not applicable.

3.2 Mixtures

Contains: ≥90% Water (CAS No. 7732-18-5).



SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash skin with soap and water.
Eye Contact	If contact with eyes directly, flush with gently flowing fresh water thoroughly.
Ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General hygiene measures for the handling of chemicals are applicable. Wear protective equipment to comply with good occupational hygiene practice. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

7.3 Specific end use(s)

Buffer solution for cleaning up DNA bound to magnetic beads.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
None assigned						

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection Not normally required.
 Handling of larger amounts: Wear protective eye glasses for protection against liquid splashes.



Skin protection Not normally required.
 Wear suitable gloves if prolonged skin contact is likely.



Respiratory protection Normally no personal respiratory protection is necessary.
 Wear suitable respiratory protective equipment if exposure to high levels of material are likely.



Thermal hazards Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid. Color : Clear, Colorless.
Odor	Odorless.
Odor threshold	Not established.
pH	Neutral.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash Point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not available.
Vapor density	Not available.
Density (g/ml)	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.

SAFETY DATA SHEET



Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Low acute toxicity.
Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	It is not a skin sensitizer.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	No evidence of reproductive effects.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Other information

None.



SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Low toxicity to aquatic organisms.
12.2 Persistence and Degradation	No information available.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	The product is predicted to have high mobility in soil.
12.5 Other adverse effects	Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of empty containers and wastes safely.
13.2 Additional Information	Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1 UN number	Not applicable.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not applicable.
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.

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations	
Toxic and hazardous substances (29 CFR 1910; Subpart Z)	Not listed.
National emission standards for hazardous air pollutants (40 CFR 61.01)	Not listed.
SARA Title III Section 313	Not listed.
TSCA (Toxic Substance Control Act)	Listed: Water (CAS No.: 7732-18-5).
CAA 602 - Ozone Depleting Substances (ODS)	Not listed.



15.2 US State Regulations - State Right to Know Lists

Proposition 65 (California)	Not listed.
Minnesota	Not listed.
New Jersey	Not listed.
Pennsylvania	Not listed.
Rhode Island	Not listed.

15.3 Other

OSPAR List of Chemicals for Priority Action	Not listed.
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	Not listed.
NTP (National Toxicology Program)	Not listed.
IARC (International Agency for Research on Cancer)	Not listed.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 16

NFPA Rating	
Health	0
Flammability	0
Instability	0
Special Hazards	

LEGEND

Acronyms

CAS : Chemical Abstracts Service
 LTEL : Long term exposure limit
 STEL : Short term exposure limit
 STOT : Specific Target Organ Toxicity
 UN : United Nations

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose.

Oxford Gene Technology Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law.

Oxford Gene Technology Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.



ACCORDING TO US CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Hybridisation Buffer
 Product code 502002 CytoSure™ NGS Hybridisation & Wash Kit
 CAS No. Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Analytical reagent. For research use only.
 Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Oxford Gene Technology Inc.
 (North America office)
 520 White Plains Road, Suite 500
 Tarrytown, NY 10591
 Telephone 914 467 5285
 E-mail support@ogt.com

1.4 Emergency telephone number

Company 914 467 5285

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200 Acute Tox. 2; Fatal if swallowed.
 Acute Tox. 4; Harmful in contact with skin.
 Skin Irrit. 2; Causes skin irritation.
 STOT RE 2; May cause damage to organs through prolonged or repeated exposure:
 Respiratory tract, Inhalation.

2.2 Label elements

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Hybridisation Buffer

Hazard Pictogram(s)



GHS06



GHS08

Signal Word(s)

Danger.

Hazard Statement(s)

H300: Fatal if swallowed.
 H312: Harmful in contact with skin.
 H315: Causes skin irritation.
 H373: May cause damage to organs through prolonged or repeated exposure:
 Respiratory tract, Inhalation.

Precautionary Statement(s)

P260: Do not breathe vapour.
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P302+P352: IF ON SKIN: Wash with plenty of water.
 P332+P313: If skin irritation occurs: Get medical advice/attention.

**2.3 Other hazards**

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable.

3.2 Mixtures

Contains: ≥60% Water (CAS No. 7732-18-5).

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Tetramethylammonium chloride	75-57-0	< 30	Acute Tox. 2; H300 Acute Tox. 3; H311 Skin Irrit. 2; H315 STOT SE 1; H370	GHS06 GHS08
Disodium dihydrogen ethylenediaminetetraacetate	139-33-3	< 5	Acute Tox. 4; H332 STOT RE 2; H373	GHS08 GHS07

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin Contact	Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
Eye Contact	If contact with eyes directly, flush with gently flowing fresh water thoroughly.
Ingestion	Rinse mouth. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None known.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Do not breathe vapour. Wear appropriate personal protective equipment, avoid direct contact.

6.2 Environmental precautions

Avoid release to the environment.



6.3 Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Collect spillage. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General hygiene measures for the handling of chemicals are applicable. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin. Take off contaminated clothing and wash it before reuse. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

7.3 Specific end use(s)

Buffer solution to Hybridisationridise oligonucleotides to DNA.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
None assigned						

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection Wear protective eye glasses for protection against liquid splashes.



Skin protection Wear protective gloves.



Respiratory protection Wear suitable respiratory protection.



Thermal hazards Not applicable.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid. Color : Clear, Colorless.
Odor	Odorless.
Odor threshold	Not established.
pH	Neutral.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash Point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not available.
Vapor density	Not available.
Density (g/ml)	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Fatal if swallowed. No data.
Acute toxicity - Skin Contact	Harmful in contact with skin. No data.
Skin corrosion/irritation	Causes skin irritation. No data.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	It is not a skin sensitizer.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	No evidence of reproductive effects.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure: Respiratory tract, Inhalation. No data.
Aspiration hazard	Not classified.

11.2 Other information

None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic life with long lasting effects. No data.

12.2 Persistence and Degradation

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

The product is predicted to have high mobility in soil.

12.5 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of empty containers and wastes safely.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN 2810

14.2 UN proper shipping name

TOXIC LIQUID, ORGANIC, N.O.S. (Tetramethylammonium chloride)

14.3 Transport hazard class(es)

6.1

14.4 Packing group

II



14.5 Environmental hazards

Classified as a Marine Pollutant.

14.6 Special precautions for user

Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Toxic and hazardous substances (29 CFR 1910; Subpart Z)	All chemicals are not listed.
National emission standards for hazardous air pollutants (40 CFR 61.01)	All chemicals are not listed.
SARA Title III Section 313	All chemicals are not listed.
TSCA (Toxic Substance Control Act)	Listed: Water (CAS No.: 7732-18-5), Tetramethylammonium chloride (CAS No.: 75-57-0)
CAA 602 - Ozone Depleting Substances (ODS)	All chemicals are not listed.

15.2 US State Regulations - State Right to Know Lists

Proposition 65 (California)	All chemicals are not listed.
Minnesota	All chemicals are not listed.
New Jersey	All chemicals are not listed.
Pennsylvania	All chemicals are not listed.
Rhode Island	All chemicals are not listed.

15.3 Other

OSPAR List of Chemicals for Priority Action	All chemicals are not listed.
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	All chemicals are not listed.
NTP (National Toxicology Program)	All chemicals are not listed.
IARC (International Agency for Research on Cancer)	All chemicals are not listed.

CytoSure™ NGS Hybridisation & Wash Kit
 – Hybridisation Buffer
SAFETY DATA SHEET



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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 16

NFPA Rating	
Health	3
Flammability	0
Instability	0
Special Hazards	

LEGEND

Hazard Pictogram(s)



GHS06



GHS08

GHS07: GHS: exclamation mark

Hazard classification

Acute Tox. 2: Acute toxicity, Category 2
 Acute Tox. 3: Acute toxicity, Category 3
 Acute Tox. 4: Acute toxicity, Category 4
 STOT RE 2: Specific target organ toxicity — repeated exposure, Category 2
 STOT SE 1: Specific target organ toxicity — single exposure, Category 1
 Skin Irrit. 2: Skin corrosion/irritation, Category 2

Hazard Statement(s)

H300: Fatal if swallowed.
 H311: Toxic in contact with skin.
 H315: Causes skin irritation.
 H332: Harmful if inhaled.
 H370: Causes damage to organs.
 H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

P264: Wash hands and exposed skin thoroughly after handling.
 P312: Call a POISON CENTER/doctor if you feel unwell.
 P330: Rinse mouth.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P405: Store locked up.
 P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

CAS : Chemical Abstracts Service
 LTEL : Long term exposure limit
 STEL : Short term exposure limit
 STOT : Specific Target Organ Toxicity
 UN : United Nations

CytoSure™ NGS Hybridisation & Wash Kit
– Hybridisation Buffer
SAFETY DATA SHEET



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ACCORDING TO US CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Wash Buffer
Product code 502002 CytoSure™ NGS Hybridisation & Wash Kit
CAS No. Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Analytical reagent. For research use only.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Oxford Gene Technology Inc.
(North America office)
520 White Plains Road, Suite 500
Tarrytown, NY 10591
Telephone 914 467 5285
E-mail support@ogt.com

1.4 Emergency telephone number

Company 914 467 5285

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200 Not classified as dangerous for supply/use.

2.2 Label elements

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Wash Buffer
Hazard Pictogram(s) None.
Signal Word(s) None.
Hazard Statement(s) None.
Precautionary Statement(s) None.

2.3 Other hazards

None known.

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

No classifiable hazardous ingredient(s).

3.1 Substances

Not applicable.

3.2 Mixtures

Contains: ≥90% Water (CAS No. 7732-18-5).



SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash skin with soap and water.
Eye Contact	If contact with eyes directly, flush with gently flowing fresh water thoroughly.
Ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General hygiene measures for the handling of chemicals are applicable. Wear protective equipment to comply with good occupational hygiene practice. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

7.3 Specific end use(s)

Buffer solution for cleaning up DNA bound to magnetic beads.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
None assigned						

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection Not normally required.
 Handling of larger amounts: Wear protective eye glasses for protection against liquid splashes.



Skin protection Not normally required.
 Wear suitable gloves if prolonged skin contact is likely.



Respiratory protection Normally no personal respiratory protection is necessary.
 Wear suitable respiratory protective equipment if exposure to high levels of material are likely.



Thermal hazards Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid. Color : Clear, Colorless.
Odor	Odorless.
Odor threshold	Not established.
pH	Neutral.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash Point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Density (g/ml)	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.

SAFETY DATA SHEET



Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Low acute toxicity.
Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	It is not a skin sensitizer.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	No evidence of reproductive effects.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Other information

None.



SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity**

Low toxicity to aquatic organisms.
- 12.2 Persistence and Degradation**

No information available.
- 12.3 Bioaccumulative potential**

No information available.
- 12.4 Mobility in soil**

The product is predicted to have high mobility in soil.
- 12.5 Other adverse effects**

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**

Dispose of empty containers and wastes safely.
- 13.2 Additional Information**

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

- Not classified as dangerous for transport.
- 14.1 UN number**

Not applicable.
 - 14.2 UN proper shipping name**

Not applicable.
 - 14.3 Transport hazard class(es)**

Not applicable.
 - 14.4 Packing group**

Not applicable.
 - 14.5 Environmental hazards**

Not applicable.
 - 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.

SECTION 15: REGULATORY INFORMATION

- 15.1 US Federal Regulations**
 - Toxic and hazardous substances (29 CFR 1910; Subpart Z)

All chemicals are not listed.
 - National emission standards for hazardous air pollutants (40 CFR 61.01)

All chemicals are not listed.
 - SARA Title III Section 313

All chemicals are not listed.
 - TSCA (Toxic Substance Control Act)

Listed: Water (CAS No.: 7732-18-5).
 - CAA 602 - Ozone Depleting Substances (ODS)

All chemicals are not listed.

SAFETY DATA SHEET



15.2 US State Regulations - State Right to Know Lists

Proposition 65 (California)	All chemicals are not listed.
Minnesota	All chemicals are not listed.
New Jersey	All chemicals are not listed.
Pennsylvania	All chemicals are not listed.
Rhode Island	All chemicals are not listed.

15.3 Other

OSPAR List of Chemicals for Priority Action	All chemicals are not listed.
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	All chemicals are not listed.
NTP (National Toxicology Program)	All chemicals are not listed.
IARC (International Agency for Research on Cancer)	All chemicals are not listed.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 16

NFPA Rating	
Health	0
Flammability	0
Instability	0
Special Hazards	

LEGEND

Acronyms

CAS : Chemical Abstracts Service
 LTEL : Long term exposure limit
 STEL : Short term exposure limit
 STOT : Specific Target Organ Toxicity
 UN : United Nations

Disclaimers

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ACCORDING TO US CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Cot Human DNA
Product code 502002 CytoSure™ NGS Hybridisation & Wash Kit
CAS No. None assigned.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Analytical reagent. For research use only.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Oxford Gene Technology Inc.
(North America office)
520 White Plains Road, Suite 500
Tarrytown, NY 10591
Telephone 914 467 5285
E-mail support@ogt.com

1.4 Emergency telephone number

Company 914 467 5285

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200 Not classified as dangerous for supply/use.

2.2 Label elements

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Cot Human DNA
Hazard Pictogram(s) None.
Signal Word(s) None.
Hazard Statement(s) None.
Precautionary Statement(s) None.

2.3 Other hazards

None known.

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Contains: No classifiable hazardous ingredient(s).



SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash skin with water.
Eye Contact	Flush eyes with water for at least 15 minutes.
Ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General hygiene measures for the handling of chemicals are applicable. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place. Wash hands and exposed skin after use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

7.3 Specific end use(s)

Blocking agent.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
None assigned						

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection Not normally required.
 Handling of larger amounts: Wear protective eye glasses for protection against liquid splashes.



Skin protection Not normally required.
 Wear suitable gloves if prolonged skin contact is likely.



Respiratory protection Normally no personal respiratory protection is necessary.
 Wear suitable respiratory protective equipment if exposure to high levels of material are likely.



Thermal hazards Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid. Color : Clear, Colorless.
Odor	Odorless.
Odor threshold	Not established.
pH	7-8
Melting point/freezing point	~0°C
Initial boiling point and boiling range	~100°C
Flash Point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	~23 hPa
Vapor density	Not available.
Density (g/ml)	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.

SAFETY DATA SHEET



Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Low acute toxicity.
Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	It is not a skin sensitizer.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	No evidence of reproductive effects.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Other information

None.



SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity**
Low toxicity to aquatic organisms.
- 12.2 Persistence and Degradation**
No information available.
- 12.3 Bioaccumulative potential**
No information available.
- 12.4 Mobility in soil**
The product is predicted to have high mobility in soil.
- 12.5 Other adverse effects**
Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Dispose of empty containers and wastes safely.
- 13.2 Additional Information**
Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

- Not classified as dangerous for transport.
- 14.1 UN number**
Not applicable.
 - 14.2 UN proper shipping name**
Not applicable.
 - 14.3 Transport hazard class(es)**
Not applicable.
 - 14.4 Packing group**
Not applicable.
 - 14.5 Environmental hazards**
Not applicable.
 - 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.

SECTION 15: REGULATORY INFORMATION

- 15.1 US Federal Regulations**
- Toxic and hazardous substances (29 CFR 1910; Subpart Z) Not listed.
- National emission standards for hazardous air pollutants (40 CFR 61.01) Not listed.
- SARA Title III Section 313 Not listed.
- TSCA (Toxic Substance Control Act) Not listed.
- CAA 602 - Ozone Depleting Substances (ODS) Not listed.



15.2 US State Regulations - State Right to Know Lists

Proposition 65 (California)	Not listed.
Minnesota	Not listed.
New Jersey	Not listed.
Pennsylvania	Not listed.
Rhode Island	Not listed.

15.3 Other

OSPAR List of Chemicals for Priority Action	Not listed.
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	Not listed.
NTP (National Toxicology Program)	Not listed.
IARC (International Agency for Research on Cancer)	Not listed.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 16

NFPA Rating	
Health	0
Flammability	0
Instability	0
Special Hazards	

LEGEND

Acronyms

CAS : Chemical Abstracts Service
 LTEL : Long term exposure limit
 STEL : Short term exposure limit
 STOT : Specific Target Organ Toxicity
 UN : United Nations

Disclaimers

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ACCORDING TO US CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Blockers
Product code 502002 CytoSure™ NGS Hybridisation & Wash Kit
CAS No. None assigned.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Analytical reagent. For research use only.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Oxford Gene Technology Inc.
(North America office)
520 White Plains Road, Suite 500
Tarrytown, NY 10591
Telephone 914 467 5285
E-mail support@ogt.com

1.4 Emergency telephone number

Company 914 467 5285

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200 Not classified as dangerous for supply/use.

2.2 Label elements

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Blockers
Hazard Pictogram(s) None.
Signal Word(s) None.
Hazard Statement(s) None.
Precautionary Statement(s) None.

2.3 Other hazards

None known.

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Contains: No classifiable hazardous ingredient(s).



SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash skin with water.
Eye Contact	Flush eyes with water for at least 15 minutes.
Ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General hygiene measures for the handling of chemicals are applicable. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place. Wash hands and exposed skin after use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

7.3 Specific end use(s)

Additive.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
None assigned						

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection Not normally required.
 Handling of larger amounts: Wear protective eye glasses for protection against liquid splashes.



Skin protection Not normally required.
 Wear suitable gloves if prolonged skin contact is likely.



Respiratory protection Normally no personal respiratory protection is necessary.
 Wear suitable respiratory protective equipment if exposure to high levels of material are likely.



Thermal hazards Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid. Color : Clear, Colorless.
Odor	Odorless.
Odor threshold	Not established.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash Point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not available.
Vapor density	Not available.
Density (g/ml)	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.

SAFETY DATA SHEET



Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Low acute toxicity.
Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	It is not a skin sensitizer.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	No evidence of reproductive effects.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Other information

None.



SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity**
Low toxicity to aquatic organisms.
- 12.2 Persistence and Degradation**
No information available.
- 12.3 Bioaccumulative potential**
No information available.
- 12.4 Mobility in soil**
No information available.
- 12.5 Other adverse effects**
Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Dispose of empty containers and wastes safely.
- 13.2 Additional Information**
Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

- Not classified as dangerous for transport.
- 14.1 UN number**
Not applicable.
 - 14.2 UN proper shipping name**
Not applicable.
 - 14.3 Transport hazard class(es)**
Not applicable.
 - 14.4 Packing group**
Not applicable.
 - 14.5 Environmental hazards**
Not applicable.
 - 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.

SECTION 15: REGULATORY INFORMATION

- 15.1 US Federal Regulations**
- Toxic and hazardous substances (29 CFR 1910; Subpart Z) Not listed.
- National emission standards for hazardous air pollutants (40 CFR 61.01) Not listed.
- SARA Title III Section 313 Not listed.
- TSCA (Toxic Substance Control Act) Not listed.
- CAA 602 - Ozone Depleting Substances (ODS) Not listed.

SAFETY DATA SHEET



15.2 US State Regulations - State Right to Know Lists

Proposition 65 (California)	Not listed.
Minnesota	Not listed.
New Jersey	Not listed.
Pennsylvania	Not listed.
Rhode Island	Not listed.

15.3 Other

OSPAR List of Chemicals for Priority Action	Not listed.
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	Not listed.
NTP (National Toxicology Program)	Not listed.
IARC (International Agency for Research on Cancer)	Not listed.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 16

NFPA Rating	
Health	0
Flammability	0
Instability	0
Special Hazards	

LEGEND

Acronyms

CAS : Chemical Abstracts Service
 LTEL : Long term exposure limit
 STEL : Short term exposure limit
 STOT : Specific Target Organ Toxicity
 UN : United Nations

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ACCORDING TO US CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Formamide
 Product code 502002 CytoSure™ NGS Hybridisation & Wash Kit
 CAS No. 75-12-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Analytical reagent. For research use only.
 Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Oxford Gene Technology Inc.
 (North America office)
 520 White Plains Road, Suite 500
 Tarrytown, NY 10591

Telephone 914 467 5285
 E-mail support@ogt.com

1.4 Emergency telephone number

Company 914 467 5285

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200 Repr. 1B; May damage the unborn child.

2.2 Label elements

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Formamide

Hazard Pictogram(s)



GHS08

Signal Word(s)

Danger.

Hazard Statement(s)

H360D: May damage the unborn child.

Precautionary Statement(s)

P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor.
 P405: Store locked up.
 P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

None known.

2.4 Additional Information

None.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Formamide	75-12-7	≥ 90	Repr. 1B; H360D	GHS08

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash skin with soap and water.
Eye Contact	If contact with eyes directly, flush with gently flowing fresh water thoroughly.
Ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, foam, dry powder or CO ₂ .
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition. Decomposes in a fire giving off toxic fumes: Ammonia, Hydrogen cyanide, Carbon monoxide, Nitrogen oxides.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Water spray should be used to cool containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Wear appropriate personal protective equipment, avoid direct contact.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.



SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General hygiene measures for the handling of chemicals are applicable. 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. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up.
 Storage temperature: Ambient.
 Storage life: Stable under normal conditions.
 Incompatible materials: Oxidizing agents, Acids, Alkalis, Iodine, Pyridine, Sulphur trioxide, Aluminium, Iron, Copper, Natural rubber.

7.3 Specific end use(s)

Additive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Formamide	75-12-7	10	18	-	-	ACGIH TLV, S, OSHA PEL, Skin

Remark	Notes
ACGIH TLV	The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®) 2018.
OSHA PEL	Occupational Safety and Health (OSHA) Permissible Exposure Limits (PELs).
S	Skin Sensitization.
Skin	Danger of cutaneous absorption.

8.2 Exposure controls

8.2.1. Appropriate engineering controls: Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection: Wear protective eye glasses for protection against liquid splashes.



Skin protection: Wear protective gloves.



Respiratory protection: Wear suitable respiratory protective equipment if exposure to high levels of material are likely.

SAFETY DATA SHEET



Thermal hazards

Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid. Color : Colorless.
Odor	Odorless.
Odor threshold	Not established.
pH	Not available.
Melting point/freezing point	2.6°C
Initial boiling point and boiling range	218.3°C
Flash Point	152°C
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	0.06 hPa @ 20°C
Vapor density	Not available.
Density (g/ml)	1.13 g/cm ³ @ 20°C
Relative density	Not available.
Solubility(ies)	Miscible with water.
Partition coefficient: n-octanol/water	Log Kow: -0.82 @ 25°C
Auto-ignition temperature	>500°C
Decomposition Temperature (°C)	>140°C
Viscosity	3.764 mPa*s @ 20°C
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

Oxidizing agents, Acids, Alkalis, Iodine, Pyridine, Sulphur trioxide, Aluminium, Iron, Copper, Natural rubber.

10.6 Hazardous decomposition products

No hazardous decomposition products known.



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Low acute toxicity.
Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	It is not a skin sensitizer.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	May damage the unborn child. No data.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Other information

None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Low toxicity to aquatic organisms.

12.2 Persistence and Degradation

This substance is biodegradable. Unlikely to persist.

12.3 Bioaccumulative potential

The substance has low potential for bioaccumulation.

12.4 Mobility in soil

The substance is predicted to have high mobility in soil.

12.5 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Incineration by an approved method could be considered.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

SAFETY DATA SHEET



14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

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.

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

- Toxic and hazardous substances (29 CFR 1910; Subpart Z) Not listed.
- National emission standards for hazardous air pollutants (40 CFR 61.01) Not listed.
- SARA Title III Section 313 Not listed.
- TSCA (Toxic Substance Control Act) Listed: Formamide (CAS No.: 75-12-7)
- CAA 602 - Ozone Depleting Substances (ODS) Not listed.

15.2 US State Regulations - State Right to Know Lists

- Proposition 65 (California) Not listed.
- Minnesota Listed: Formamide (CAS No.: 75-12-7)
- New Jersey Listed: Formamide (CAS No.: 75-12-7)
- Pennsylvania Listed: Formamide (CAS No.: 75-12-7)
- Rhode Island Listed: Formamide (CAS No.: 75-12-7)

15.3 Other

- OSPAR List of Chemicals for Priority Action Not listed.
- OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives) Not listed.
- NTP (National Toxicology Program) Not listed.
- IARC (International Agency for Research on Cancer) Not listed.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 16

NFPA Rating	
Health	0
Flammability	0
Instability	0
Special Hazards	

SAFETY DATA SHEET



LEGEND

Hazard Pictogram(s)



GHS08

Hazard classification

Repr. 1B: Reproductive toxicity, Category 1B

Hazard Statement(s)

H360D: May damage the unborn child.

Acronyms

CAS : Chemical Abstracts Service

LTEL : Long term exposure limit

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

UN : United Nations

Disclaimers

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CytoSure™ NGS Hybridisation & Wash Kit
– Nuclease-free Water
SAFETY DATA SHEET



A Sysmex Group Company

ACCORDING TO US CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Nuclease-free Water
Product code 502002 CytoSure™ NGS Hybridisation & Wash Kit
CAS No. 7732-18-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Analytical reagent. For research use only.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Oxford Gene Technology Inc.
(North America office)
520 White Plains Road, Suite 500
Tarrytown, NY 10591
Telephone 914 467 5285
E-mail support@ogt.com

1.4 Emergency telephone number

Company 914 467 5285

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200 Not classified as dangerous for supply/use.

2.2 Label elements

Product Name CytoSure™ NGS Hybridisation & Wash Kit – Nuclease-free Water
Hazard Pictogram(s) None.
Signal Word(s) None.
Hazard Statement(s) None.
Precautionary Statement(s) None.

2.3 Other hazards

None known.

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Contains no hazardous ingredients: Water (CAS No. 7732-18-5).

3.2 Mixtures

Not applicable.



SECTION 4: FIRST AID MEASURES

Unlikely to cause harmful effects under normal conditions of handling and use.

4.1 Description of first aid measures

Inhalation	Unlikely route of exposure.
Skin Contact	Wash skin with water.
Eye Contact	Flush eyes with water for at least 15 minutes.
Ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Not flammable. In case of fire, use extinguishing media appropriate to surrounding conditions.

5.1 Extinguishing media

Suitable extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No special precautions are required for this product. No hazard expected under normal conditions of use.

6.2 Environmental precautions

No environmental hazards have been reported or known.

6.3 Methods and material for containment and cleaning up

Cover with absorbent or contain. Collect and dispose.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

No special precautions are required for this product. Do not eat, drink or smoke at the work place. Wash hands and exposed skin after use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

7.3 Specific end use(s)

Additive.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
None assigned						

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection Not normally required.



Skin protection Not normally required.



Respiratory protection Normally no personal respiratory protection is necessary.



Thermal hazards Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
	Color : Colorless.
Odor	Odorless.
Odor threshold	Not established.
pH	7
Melting point/freezing point	0°C
Initial boiling point and boiling range	100°C
Flash Point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	23 hPa
Vapor density	Not available.
Density (g/ml)	1 g/cm³
Relative density	Not available.
Solubility(ies)	Miscible.
Partition coefficient: n-octanol/water	Not available.

SAFETY DATA SHEET



Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

No known hazards are associated with the use of this material.

11.1 Information on toxicological effects

Acute toxicity	Low acute toxicity.
Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	It is not a skin sensitizer.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	No evidence of reproductive effects.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Other information

None.



SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity**
No ecotoxic effects are known for this product.
- 12.2 Persistence and Degradation**
No information available.
- 12.3 Bioaccumulative potential**
No information available.
- 12.4 Mobility in soil**
The substance has high mobility in soil.
- 12.5 Other adverse effects**
Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
No special measures are required. Dispose at suitable refuse site.
- 13.2 Additional Information**
Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

- Not classified as dangerous for transport.
- 14.1 UN number**
Not applicable.
 - 14.2 UN proper shipping name**
Not applicable.
 - 14.3 Transport hazard class(es)**
Not applicable.
 - 14.4 Packing group**
Not applicable.
 - 14.5 Environmental hazards**
Not applicable.
 - 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.

SECTION 15: REGULATORY INFORMATION

- 15.1 US Federal Regulations**
 - Toxic and hazardous substances (29 CFR 1910; Subpart Z) Not listed.
 - National emission standards for hazardous air pollutants (40 CFR 61.01) Not listed.
 - SARA Title III Section 313 Not listed.
 - TSCA (Toxic Substance Control Act) Listed: Water (CAS No.: 7732-18-5).
 - CAA 602 - Ozone Depleting Substances (ODS) Not listed.



15.2 US State Regulations - State Right to Know Lists

Proposition 65 (California)	Not listed.
Minnesota	Not listed.
New Jersey	Not listed.
Pennsylvania	Not listed.
Rhode Island	Not listed.

15.3 Other

OSPAR List of Chemicals for Priority Action	Not listed.
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	Not listed.
NTP (National Toxicology Program)	Not listed.
IARC (International Agency for Research on Cancer)	Not listed.

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