

A Sysmex Group Company

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

1. Buffers / Nucleotides

Step 1: ER Buffer Step 2: Ligase Buffer Step 2: Adaptor A Step 2: Adaptor B Step 3: Primer PCR Buffer Step 4: Primers Nuclease-Free Water

2. Enzyme Reagents

Step 1: ER Enzyme Mix Step 2: Ligase DNA Polymerase CytoSure™ NGS Library Preparation Kit – Buffers / Nucleotides SAFETY DATA SHEET



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 Library Preparation Kit – Buffers / Nucleotides	
Product code	502001 CytoSure™ NGS Library Preparation Kit	
CAS No.	None assigned.	
1.2 Relevant identified uses of the subs	ance 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 of	lata 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	
	US CFR 1910.1200
Product Name	CytoSure™ NGS Library Preparation Kit – Buffers / Nucleotides
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 hazardous ingredients.

CytoSure[™] NGS Library Preparation Kit – Buffers / Nucleotides SAFETY DATA SHEET



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. Get medical advice/attention if you feel unwell.
4.2 Most important symptoms and el	fects, both acute and delayed
	None anticipated.
4.3 Indication of any immediate med	ical attention and special treatment needed
	Unlikely to be required but if necessary treat symptomatically.
SECTION 5: FIREFIGHTING MEASU	JRES
5.1 Extinguishing media	
Suitable extinguishing media	Use water spray, dry powder or carbon dioxide to extinguish.
Unsuitable extinguishing media	None known.
5.2 Special hazards arising from the	substance or mixture
	Decomposes in a fire giving off toxic fumes: Oxides of nitrogen, sulphur and carbon
	may be formed.
5.3 Advice for firefighters	
	Fire fighters should wear complete protective clothing including self-contained
	breathing apparatus.
SECTION 6: ACCIDENTAL RELEAS	E 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 contain	iment and cleaning up
	Absorb spillage in suitable inert material. Transfer to a container for disposal.
	Wash the spillage area with water.
6.4 Reference to other sections	
6.4 Reference to other sections	See Also Section 8, 13.
6.4 Reference to other sections SECTION 7: HANDLING AND STOR	
SECTION 7: HANDLING AND STOR	
SECTION 7: HANDLING AND STOR	AGE
SECTION 7: HANDLING AND STOR	AGE General hygiene measures for the handling of chemicals are applicable. Wear
SECTION 7: HANDLING AND STOR	AGE 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.
SECTION 7: HANDLING AND STOR 7.1 Precautions for safe handling	AGE 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.
SECTION 7: HANDLING AND STOR 7.1 Precautions for safe handling	AGE 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. Iding any incompatibilities
SECTION 7: HANDLING AND STOR 7.1 Precautions for safe handling 7.2 Conditions for safe storage, inclu	AGE 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. Iding any incompatibilities Keep in a cool, dry, well ventilated place.
SECTION 7: HANDLING AND STOR 7.1 Precautions for safe handling 7.2 Conditions for safe storage, inclu Storage temperature	AGE 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. Iding any incompatibilities Keep in a cool, dry, well ventilated place. -20°C

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7.3 Specific end use(s)

Analytical reagent. For research use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

No Occupational Exposure Limit assigned.

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

8.2 Exposure controls

	engineering controls	Ensure adequate ventilation.
8.2.2. Personal prot	tection equipment	
Eye	e Protection	Wear protective eye glasses for protection against liquid splashes.
Ski	in protection	Wear suitable protective clothing and gloves. Wear: Natural rubber, Nitrile rubber, Impervious gloves. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.
Res	spiratory protection	Normally no personal respiratory protection is necessary.
The	ermal hazards	Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

1,5	
Appearance	Liquid.
	Color : Colorless.
Odor	Odourless.
Odor Threshold	Not established.
pH	7 - 8
Melting point/freezing point	0°C (By analogy with similar materials: Water)
Initial boiling point and boiling range	100°C (By analogy with similar materials: Water)
Flash Point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive	Not applicable.
limits	
Vapor pressure	23 hPa (By analogy with similar materials: Water)
Vapor density	Not available.
Density (g/ml)	Not available.

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A Sysmex Group Company

Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
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 hazard	lous reactions		
	No hazardous reactions known if used for its intended purpose.		
10.4 Conditions to avoid			
	None anticipated.		
10.5 Incompatible materi	als		
	None known.		
10.6 Hazardous decomp	osition 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	



SECTION 12: ECOLOGICAL INFORM	ATION
12.1 Toxicity	
,	Low toxicity to aquatic organisms.
12.2 Persistence and Degradation	
	The product is substantially biodegradable.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	
· · · · · · · · · · · · · · · · · · ·	Soluble in water. The product is predicted to have high mobility in soil.
12.5 Other adverse effects	
	Not known.
SECTION 13: DISPOSAL CONSIDER/	ATIONS
13.1 Waste treatment methods	
	Dispose of empty containers and wastes safely. Send to a licensed recycler,
13.2 Additional Information	reclaimer or incinerator.
13.2 Additional Information	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORMA	
Not classified as dangerous for transpo 14.1 UN number	rt.
14.1 ON humber	Not applicable.
14.2 UN proper shipping name	
	Not applicable.
14.3 Transport hazard class(es)	
14.4 Packing group	Not applicable.
i dowing group	Not applicable.
14.5 Environmental hazards	
	Not applicable.
14.6 Special precautions for user	Net applicable
14.7 Transport in bulk according to Ar	Not applicable. Inex II of Marpol and the IBC Code
	Not applicable.
SECTION 15: REGULATORY INFORM	
15.1 US Federal Regulations Toxic and hazardous substances (29	Not listed
CFR 1910; Subpart Z)	

CFR 1910; Subpart Z) National emission standards for hazardous air pollutants (40 CFR 61.01) SARA Title III Section 313 Not listed TSCA (Toxic Substance Control Act) Not listed CAA 602 - Ozone Depleting Substances Not listed (ODS)

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

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 16

NFPA Rating	
Health	0
Flammability	0
Instability	0
Special Hazards	

LEGEND

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 Library Preparation Kit – Enzyme Reagents
Product code	502001 CytoSure™ NGS Library Preparation Kit
CAS No.	None assigned.
1.2 Relevant identified uses of the subs	tance 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	
1.4 Emergency telephone number Company	914 467 5285
Company	
Company	DN
Company SECTION 2: HAZARDS IDENTIFICATIO	DN
Company SECTION 2: HAZARDS IDENTIFICATIOn 2.1 Classification of the substance or m	DN
Company SECTION 2: HAZARDS IDENTIFICATION 2.1 Classification of the substance or m US CFR 1910.1200	DN
Company SECTION 2: HAZARDS IDENTIFICATION 2.1 Classification of the substance or m US CFR 1910.1200	DN ixture Not classified as dangerous for supply/use.
Company SECTION 2: HAZARDS IDENTIFICATION 2.1 Classification of the substance or m US CFR 1910.1200 2.2 Label elements	DN ixture Not classified as dangerous for supply/use. US CFR 1910.1200
Company SECTION 2: HAZARDS IDENTIFICATION 2.1 Classification of the substance or monopoly US CFR 1910.1200 2.2 Label elements Product Name	ixture Not classified as dangerous for supply/use. US CFR 1910.1200 CytoSure™ NGS Library Preparation Kit – Enzyme Reagents
Company SECTION 2: HAZARDS IDENTIFICATION 2.1 Classification of the substance or more US CFR 1910.1200 2.2 Label elements Product Name Hazard Pictogram(s)	ixture Not classified as dangerous for supply/use. US CFR 1910.1200 CytoSure™ NGS Library Preparation Kit – Enzyme Reagents None.
Company SECTION 2: HAZARDS IDENTIFICATIO 2.1 Classification of the substance or m US CFR 1910.1200 2.2 Label elements Product Name Hazard Pictogram(s) Signal Word(s)	ixture Not classified as dangerous for supply/use. US CFR 1910.1200 CytoSure™ NGS Library Preparation Kit – Enzyme Reagents None. None.
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Hazardous Ingredient(s)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Glycerol	56-81-5	40 - 80	Not classified	None



SECTION 4: 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. Get medical advice/attention if you feel unwell.		
4.2 Most important symptoms and en	ffects, both acute and delayed		
	None anticipated.		
4.3 Indication of any immediate med	ical attention and special treatment needed		
	Unlikely to be required but if necessary treat symptomatically.		
SECTION 5: FIREFIGHTING MEASU	JRES		
5.1 Extinguishing media			
Suitable extinguishing media	Use water spray, dry powder or carbon dioxide to extinguish.		
Unsuitable extinguishing media	None known.		
5.2 Special hazards arising from the	substance or mixture		
	Decomposes in a fire giving off toxic fumes: Oxides of nitrogen, sulphur and carbon may be formed.		
5.3 Advice for firefighters			
	Fire fighters should wear complete protective clothing including self-contained		
	breathing apparatus.		
SECTION 6: ACCIDENTAL RELEAS	E 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			
6.2 Environmental precautions			
6.2 Environmental precautions6.3 Methods and material for contair	good occupational hygiene to control personal exposures. Do not release large quantities into the surface water or into drains.		
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6.3 Methods and material for contair6.4 Reference to other sections	good occupational hygiene to control personal exposures. Do not release large quantities into the surface water or into drains. Internet and cleaning up Absorb spillage in suitable inert material. Transfer to a container for disposal. Wash the spillage area with water. See Also Section 8, 13.		
6.3 Methods and material for contain6.4 Reference to other sectionsSECTION 7: HANDLING AND STOR	good occupational hygiene to control personal exposures. Do not release large quantities into the surface water or into drains. Internet and cleaning up Absorb spillage in suitable inert material. Transfer to a container for disposal. Wash the spillage area with water. See Also Section 8, 13.		
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 6.3 Methods and material for contain 6.4 Reference to other sections SECTION 7: HANDLING AND STOR 7.1 Precautions for safe handling 7.2 Conditions for safe storage, inclu 	good occupational hygiene to control personal exposures. Do not release large quantities into the surface water or into drains. Terment and cleaning up Absorb spillage in suitable inert material. Transfer to a container for disposal. Wash the spillage area with water. See Also Section 8, 13. AGE 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. Iding any incompatibilities Keep in a cool, dry, well ventilated place.		

CytoSure™ NGS Library Preparation Kit –

Enzyme Reagents

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7.3 Specific end use(s)

Analytical reagent. For research use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA	LTEL (8 hr TWA	STEL	STEL	Note
		ppm)	mg/m³)	(ppm)	(mg/m³)	
Glycerol, mist - Total Dust	56-81-5		15			OSHA PEL Z-1
Glycerol, mist – Respirable			5			OSHA PEL Z-1
fraction						

OSHA PEL Z-1 Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table

8.2 Exposure controls

8.2.1. Appropr	iate engineering controls	Ensure adequate ventilation.
8.2.2. Persona	I protection equipment	
	Eye Protection	Wear protective eye glasses for protection against liquid splashes.
(1 ¹¹)	Skin protection	Wear suitable protective clothing and gloves. Wear: Natural rubber, Nitrile rubber, Impervious gloves. Breakthrough time of the glove material: refer to the information provided by the
		gloves' producer.
	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	Faint.
Odor Threshold	Not established.
pН	5.5 – 8.0
Melting point/freezing point	18°C
Initial boiling point and boiling range	289°C
Flash Point	193°C
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

CytoSure[™] NGS Library Preparation Kit – Enzyme Reagents SAFETY DATA SHEET



A Sysmex Group Company

Upper/lower flammability or explosive	Not applicable.
limits	
Vapor pressure	Not available.
Vapor density	Not available.
Density (g/ml)	1.26
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	400°C
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 anticipated.
10.5	Incompatible materials	
40.0	Herenderer de comme Were and de de	None known.
10.6	Hazardous decomposition products	No bozardovo docomposition producto known

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 INFORM	ATION
12.1 Toxicity	
	Low toxicity to aquatic organisms.
12.2 Persistence and Degradation	The product is substantially biodegradable.
12.3 Bioaccumulative potential	
	No information available.
12.4 Mobility in soil	Soluble in water. The product is predicted to have high mobility in soil.
12.5 Other adverse effects	
	Not known.
SECTION 13: DISPOSAL CONSIDER	ATIONS
13.1 Waste treatment methods	
	Dispose of empty containers and wastes safely. Send to a licensed recycler, reclaimer or incinerator.
13.2 Additional Information	reclaimer or incinerator.
	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORM	ATION
Not classified as dangerous for transpo	ort.
14.1 UN number	Neterslieghte
14.2 UN proper shipping name	Not applicable.
	Not applicable.
14.3 Transport hazard class(es)	Netappliable
14.4 Packing group	Not applicable.
	Not applicable.
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	
	Not applicable.
14.7 Transport in bulk according to A	nnex II of Marpol and the IBC Code Not applicable.
SECTION 15: REGULATORY INFORM	
15.1 US Federal Regulations Toxic and hazardous substances (29	Listed: 56-81-5
CFR 1910; Subpart Z)	
National emission standards for	Not listed

National emission standards forNot listedhazardous air pollutants (40 CFR 61.01)SARA Title III Section 313TSCA (Toxic Substance Control Act)CAA 602 - Ozone Depleting SubstancesNot listed(ODS)

CytoSure™ NGS Library Preparation Kit -**Enzyme Reagents** SAFETY DATA SHEET



15.2 US State Regulations State Right to Know Lists Proposition 65 (California) Not listed Minnesota Listed: 56-81-5 Listed: 56-81-5 New Jersey Listed: 56-81-5 Pennsylvania Rhode Island Listed: 56-81-5 15.3 Other OSPAR List of Chemicals for Priority Not listed Action OSHA (List of Highly Hazardous Not listed Chemicals, Toxics and Reactives) NTP (National Toxicology Program) Not listed IARC (International Agency for Not listed Research on Cancer)

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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