

SAFETY DATA SHEET

QuickGene RNA cultured cell kit S

MSDS_LRC01_01EU MSDS_WRC01_01EU MSDS_CRC01_01EU

KURABO INDUSTRIES LTD.

Bio-Medical Department

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Telephone Number +81-72-820-3079 **FAX Number** +81-72-820-3095



SAFETY DATA SHEET

1. Identification of Product/mixture and the company/undertaking

Use: Nucleic acid Isolation Kit
Product name Lysis Buffer LRC-01

Product usage QuickGene RNA cultured cell kit: Lysis Buffer

Manufacturer / Supplier:

KURABO INDUSTRIES LTD.

Bio-Medical Department

Neyagawa Techno Center 3F 14-5 Shimokida-Cho, Neyagawa, Osaka 572-0823, Japan

Telephone Number +81-72-820-3079 **FAX Number** +81-72-820-3095

Information department:

Bio-Medical Department

Telephone Number +81-72-820-3079 Email: bio@ad.kurabo.co.jp

Emergency information:

Telephone Number +81-72-820-3079 9:00AM - 6:00PM

Reference file name MSDS_LRC01_01EU

2. Hazards identification

Information pertaining to particular dangers for man and environment

Xn harmful

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Classification(REGULATION(EC) No 1272/2008

Flammable liquids, Category 3, H226

Skin irritation, Category 2, H315

Eye irritation, Category 2, H319

Classification (67/548/EEC or 1999/45/EC)

Xn R: 22-36/38

Labelling (REGULATION(EC) No 1272/2008)

Hazard pictograms



Signal word	Warning		
Hazard statement	H226	Flammable liquid and vapor. (Category 3)	
	H302	Harmful if swallowed. (Category 4)	
	H315	Causes skin irritation. (Category 2)	
	H319	Causes serious eye irritation. (Category 2)	
Precautionary statements			
Prevention	P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
	P233	Keep container tightly closed.	
	P240	Ground/bond container and receiving equipment.	
	P241	Use explosion-proof electrical/ventilating/lighting equipment.	
	P242	Use only non-sparking tools.	
	P243	Take precautionary measures against static discharges.	

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	P264	Wash thoroughly after han	dling	
	P270	Do not eat, drink or smoke	when using this product.	
	P280	Wear protective gloves/pro	otective clothing/eye protection/face protect	ction.
Response	P312	Call a doctor/physician if y	ou feel unwell.	
	P330	Rinse mouth.		
	P361	Remove/take off immedia	tely all contaminated clothing.	
	P353	Rinse skin with water/show	ver.	
	P332+P313	If skin irritation occurs: Ge	t medical advice/attention.	
	P351	Rinse cautiously with water	er for several minutes.	
	P338	Remove contact lenses, if 1	present and easy to do. Continue rinsing.	
	P337+P313	If eye irritation persists: Ge	et medical advice/attention.	
Storage	P403+P235	Store in a well-ventilated p	lace. Keep cool.	
Disposal	P501	Dispose of contents/contain	ner in accordance with local/regional/natio	onal/
		international regulations.		

3. Composition/information on ingredients

Chemical characterization

Substance or Mixture

Description Mixture of substances listed below with nonhazardous additions.

Dangerous components:

	Components	Concentration (%)		
CAS : 50-01-1	guanidine hydrochloride	40-60		
EINECS: 200-002-3	R 22-36/38 S 26-37			
CAS : 7732-18-5	water	30-50		
EINECS:231-791-2				
CAS : 64-17-5	ethanol	3-7		
EINECS: 200-578-6				
CAS:	polyoxyethylene sorbitan fatty acid ester	1-5		
EINECS:				
CAS: 57-09-0	hexadecyltrimethylammonium bromide	2.0		
EINECS:200-311-3				
Chemical formula	CH5N3.ClH (50-01-1), H2O (7732-18-5), C2H6O (64-17-5), C19H42N.Br (57-09-0)			
(*) Generally chemical substances greater than 1% of the total are listed.				

4. First aid measures

After inhalation: Supply fresh air and to be sure call for a doctor.

After skin contact Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs:

Get medical advice/attention.

After eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

After swallowing Call for a doctor immediately.

5. Fire-fighting measures

Suitable extinguish agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Do not inhale explosion gases or combustion gases.

6. Accidental release measures

Person-related safety precautions: Ensure adequate ventilation

Wear adequate personal protective equipment, see Section 8 (Exposure Controls/Personal

Protection)

Mesures for environmental protection: Do not allow to enter sewers/ surface or ground water. MSDS file name: MSDS_LRC01_01EU

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Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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7. Handling and storage

Handling

Information for safe handling: Keep receptacles tightly sealed. Avoid contact with skin, eyes and clothing.

Wash hands after handling.

Information about fire - and explosion protection:

No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: No special requirement

Further information about storage conditions: Keep receptacle tightly sealed.

8. Exposure controls/personal protection

Additional information about design of technical facilities:

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Protection of hands: Protective gloves.

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further

marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves

and has to be observed.

Eye protection: Tightly sealed goggles.

9. Physical and chemical properties

General Information

Form: Liquid
Colour: Pale yellow

Odour: Practically odourless

Change in condition

Melting point/Melting range:No data available.Boiling point/Boiling range:No data available.

Flash point: 127.4 °F (52.7 °C) Closed cup method

Self-igniting: Product is not self-igniting.

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

Flammability limit - lower (%)

Flammability limit - upper (%)

No data available.

Vapor pressure at 20°C

No data available.

Density

No data available.

Solubility in / Miscibility with water:

pH-value:

PH-value:

Completely soluble

pH. 5.5 Approx

(n-octanol/water)

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Dangerous reaction None.

Dangerous decomposition products: CO,CO2 Nitrogen oxides (NOx).

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11. Toxicological information

Acute toxicity: Harmful if swallowed.

Primary irritant effect: Acute Oral LD50 Rat: > 500 mg/kg

on the skin: moderate
on the eye: moderately irritant

Sensitization: No sensitizing effects known

Additional toxicological information: No further data

12. Ecological information

General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or

sewage system.

13. Disposal considerations

Product:

Recommendation Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class:

Maritime transport IMOG:

IMOG Class:

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class:

Transport /Additional information:

Not dangerous according to the above specifications.

15. Regulatory information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Xn: harmful

Risk phrases:

10 Flammable

Harmful if swallowed

36/38 Irritating to eyes and skin.

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

Wear suitable gloves

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 varid contractual relationship.



SAFETY DATA SHEET

1. Identification of Product/mixture and the company/undertaking

Use: Nucleic acid Isolation Kit
Product name Wash Buffer WRC-01

Product usage QuickGene RNA cultured cell kit: Wash Buffer

Manufacturer / Supplier:

KURABO INDUSTRIES LTD.

Bio-Medical Department

Neyagawa Techno Center 3F 14-5 Shimokida-Cho, Neyagawa, Osaka 572-0823, Japan

Telephone Number +81-72-820-3079 **FAX Number** +81-72-820-3095

Information department:

Bio-Medical Department

Telephone Number +81-72-820-3079 Email: bio@ad.kurabo.co.jp

Emergency information:

Telephone Number +81-72-820-3079 9:00AM - 6:00PM

Reference file name MSDS_WRC01_01EU

2. Hazards identification

Information pertaining to particular dangers for man and environment

No hazardous product as specified in Directive 67/548/EEC and 1999/45/EC.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Health hazards Acute toxicity (Oral) Not classified

Skin corrosion/irritation Not classified Serious eye damage/eye irritation Not classified

3. Composition/information on ingredients

Chemical characterization

Substance or Mixture Mixture

Components:

Components Concentration (%)

CAS: 7732-18-5 water 80 - 100

EINECS: 231-791-2

Chemical formula H2O (7732-18-5),

(*) Generally chemical substances greater than 1% of the total are listed.

4. First aid measures

After inhalation: Supply fresh air.

After skin contact Remove contaminated clothing. Wash off with soap and plenty of water.

After eye contact Rinse out with water

After swallowing Call for a doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguish agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Do not inhale explosion gases or combustion gases.

Special risks: Non-combustible

6. Accidental release measures

Person-related safety precautions: Do not inhale vapours/aerosols.

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

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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7. Handling and storage

Handling

Information for safe handling: Keep receptacles tightly sealed. Avoid contact with skin, eyes and clothing.

Wash hands after handling.

Information about fire - and explosion protection:

Storage:

No special measures required.

Requirements to be met by storerooms and receptacles: No special requirement

Further information about storage conditions: Keep receptacle tightly sealed.

8. Exposure controls/personal protection

Additional information about design of technical facilities:

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Protection of hands: Protective gloves.

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further

marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves

and has to be observed.

Eye protection: Tightly sealed goggles.

9. Physical and chemical properties

General Information

Form: Clear liquid

Colour: Transparent colourless

Odourless Odourless

Change in condition

Melting point/Melting range:Undetermined.Boiling point/Boiling range:No data available.Flash point:Not flammable

Self-igniting: Product is not self-igniting.

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

Flammability limit - lower (%)

Flammability limit - upper (%)

Vapor pressure at 20°C

No data available.

No data available.

Density

No data available.

Solubility in / Miscibility with water:

Completely soluble

pH-value:

pH. 7.5 Approx.; 25°C

(n-octanol/water)

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

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None.

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Dangerous reaction

Dangerous decomposition products: CO,CO2 Nitrogen oxides (NOx).

11. Toxicological information

Acute toxicity: No toxicity

Primary irritant effect: Acute Oral LD50 Rat: > 2000 mg/kg

on the skin: No irritation on the eye: No irritation

Sensitization: No sensitizing effects known

Additional toxicological information: No further data

12. Ecological information

General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or

sewage system.

13. Disposal considerations

Product:

Recommendation Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class:

Maritime transport IMOG:

IMOG Class:

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class:

Transport /Additional information:

Not dangerous according to the above specifications.

15. Regulatory information

Lavelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Not regulated.

Risk phrases:

Safety phrases:

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 varid contractual relationship.

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SAFETY DATA SHEET

Creation Date 2012/04/13

1. Identification of Product/mixture and the company/undertaking

Nucleic acid Isolation Kit Elution Buffer CRC-01 Product name

Product usage QuickGene RNA cultured cell kit: Elution Buffer

Manufacturer / Supplier:

KURABO INDUSTRIES LTD.

Bio-Medical Department

Neyagawa Techno Center 3F 14-5 Shimokida-Cho, Neyagawa, Osaka 572-0823, Japan

Telephone Number +81-72-820-3079 FAX Number +81-72-820-3095

Information department:

Bio-Medical Department

Telephone Number +81-72-820-3079 Email: bio@ad.kurabo.co.jp

Emergency information:

Telephone Number +81-72-820-3079 9:00AM - 6:00PM

Reference file name MSDS_CRC01_01EU

2. Hazards identification

Information pertaining to particular dangers for human and environment

No hazardous product as specified in Directive 67/548/EEC and 1999/45/EC

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.GHS-classification

Health hazards Acute toxicity (Oral) Not classified

> Skin corrosion/irritation Not classified Serious eye damage/eye irritation Not classified

3. Composition/information on ingredients

Chemical characterization

Substance or Mixture Mixture

Description Mixture of substances listed below with nonhazardous additions.

Components:

Components Concentration (%)

CAS: 7732-18-5 80 - 100water

EINECS: 231-791-2

Chemical formula H2O (7732-18-5)

(*) Generally chemical substances greater than 1% of the total are listed.

4. First aid measures

After inhalation: Supply fresh air and to be sure call for a doctor.

After skin contact: Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs:

Get medical advice/attention.

After eye contact: Rinse opened eye for several minutes under running water. Get medical attention if irritation develops

and persists.

After swallowing Call for a doctor immediately.

5. Fire-fighting measures

Suitable extinguish agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. **Protective equipment:** Do not inhale explosion gases or combustion gases.

6. Accidental release measures

Person-related safety precautions: Ensure adequate ventilation

Wear adequate personal protective equipment, see Section 8 (Exposure Controls/Personal

Protection)

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

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage

Handling

Information for safe handling: Keep receptacles tightly sealed. Avoid contact with skin, eyes and clothing.

Wash hands after handling.

Information about fire - and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirement

Further information about storage conditions: Keep receptacle tightly sealed.

8. Exposure controls/personal protection

Additional information about design of technical facilities:

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Protection of hands: Protective gloves.

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further

marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove materialThe exact break trough time has to be found out by the manufacturer of the protective gloves

and has to be observed.

Eye protection: Tightly sealed goggles.

9. Physical and chemical properties

General Information

Form: Aqueous solution

Colour: Transparent colourless

Odourless Odourless

Change in condition

Melting point/Melting range:Undetermined.Boiling point/Boiling range:No data available.Flash point:Not flammable

Self-igniting: Product is not self-igniting.

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

Flammability limit - lower (%)

Flammability limit - upper (%)

Vapor pressure at 20°C

No data available.

No data available.

Density

No data available.

Solubility in / Miscibility with water:

Completely soluble

pH-value: pH 6.5.

(n-octanol/water)

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:No decomposition if used according to specifications.

Dangerous reaction None.

Dangerous decomposition products: CO,CO2 Nitrogen oxides (NOx).

11. Toxicological information

Acute toxicity: No toxicity

Primary irritant effect: Acute Oral LD50 Rat: > 2000 mg/kg

on the skin: No irritation on the eye: No irritation

Sensitization: No sensitizing effects known

Additional toxicological information: No further data

12. Ecological information

General notes: Do not allow undiluted product or large quantities of it to reach ground water,

water course or sewage system.

13. Disposal considerations

Product:

Recommendation Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class:

Maritime transport IMOG:

IMOG Class:

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class:

Transport /Additional information:

Not dangerous according to the above specifications

15. Regulatory information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Not regulated.

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.