

SAFETY DATA SHEET

QuickGene DNA whole blood kit S (DB-S)

Name of substance	Classification acc. to GHS	Pictograms
Protease EDB-01	Skin Irrit. 2: H315	
	Eye Irrit. 2: H319	
	Resp. Sens. 1: H334	
	STOT SE 3: H335	•
Lysis Buffer LDB-04	Acute Tox. 4: H302	^
	Skin Irrit. 2: H315	(!)
	Eye Irrit. 2: H319	
Wash Buffer WDB-03		
Elution Buffer CDB-02		

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Bio-Medical Department

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Revision: 2019-6-19

Date of compilation: 2018-5-24

Date of issue: 6/19/2019

Safety Data Sheet

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

Product identifier:

Product name: Protease
Product code: EDB-01

SDS NO: EDB01_US_1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KURABO INDUSTRIES LTD.

Address: Advanced Technology Center, 14-30 Shimokida-cho, Neyagawa, Osaka, 572-0823 JAPAN

 Division:
 Bio-Medical department

 Telephone number:
 +81-72-820-3079

 FAX:
 +81-72-820-3095

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

Relevant identified uses of the product: Reagents for automated nucleic acid isolation system

Uses advised against: For research use only

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

HEALTH HAZARDS Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2

Respiratory sensitization: Category 1

Specific target organ toxicity - single exposure: Respiratory tract irritation Category 3

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

Label elements





Signal word: Danger

HAZARD STATEMENT

H315 Causes skin irritation

H319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

PRECAUTIONARY STATEMENT

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P284 In case of inadequate ventilation wear respiratory protection. (as specified by the manufacturer/supplier or the competent authority.)

P271 Use only outdoors or in a well-ventilated area.

P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves.

P280 Wear eye protection/face protection.

Response

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

P403 Store in a well-ventilated place. P233 Keep container tightly closed.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Mixture/Substance selection

Mixture

Ingredient name	Content(%)	CAS No.
Protease	95 <	9080-56-2

Note: The figures shown above are not the specifications of the product.

The components not described in this component table are not listed in EU CLP (Classification, labelling and packaging of substances and mixtures/table3-1 ECNO6182012) and HCS/HazCom 2012.

4. First-aid measures

Descriptions of first-aid measures

IF INHALED Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF ON SKIN(or hair) Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES 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.

IF SWALLOWED Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear an air-supplied respirator for a poor/non ventilated spill.

Wear proper protective equipment.

Environmental precautions

Avoid raising dust.

Methods and materials for containment and cleaning up

Ventilate area after material pick up is complete.

Fill the disposal into labelled, closable containers.

7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume.

Safety Measures/Incompatibility

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wear eye protection/face protection.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight. Storage temperature upper limit: 28°C

8. Exposure controls/personal protection

Control parameters

Adopted value

No ACGIH values available

Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

Safety and Health measures

Wash · · · thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties				
Appearance:	Solid (Freeze-dry protease)			
Color:	Pale yellow			
Odor:	Mild odor			
Solubility				
Solubility in water:	Soluble			

10. Stability and Reactivity

Chemical stability

Stable under normal storage/handling conditions.

Incompatible materials Oxidizing agents

11. Toxicological Information

Information on toxicological effects

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

No Carcinogenic effects data available

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

12. Ecological Information

Toxicity

No Aquatic toxicity data available

No Persistence and degradability data available

No Bioaccumulative potential data available

No Mobility in soil data available

Ozone depleting chemical data not available

13. Disposal considerations

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Avoid raising dust.

Avoid release to the environment (- if this is not the intended use).

14. Transport Information

UN No, UN CLASS

Not applicable to UN NO.

15. Regulatory Information

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

Data N.A.

Other regulatory information

We are not able to check up other regulatory information in regard to the substances in your country or region, therefore we request this matter would be filled by your responsibility.

16. Other information

GHS classification and labelling

Skin Irrit. 2: H315 Causes skin irritation

Eye Irrit. 2: H319 Causes serious eye irritation

Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

STOT SE 3: H335 May cause respiratory irritation

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2017 TLVs and BEIs. (ACGIH)

http://monographs.iarc.fr/ENG/Classification/index.php

Supplier's data/information

GESTIS-Stoffdatenbank

HCS/HazCom 2012 (29 CFR 1910.1200)

Pub Chem (OPEN CHEMISTRY DATABASE)

General Disclaimer

The GHS classification data given here is based on EU CLP, 2017 & US HCS, 2012.

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The GHS classification data given here is based on current EU official data (EU CLP published in 01.01.2017) and HCS/HazCom 2012 (29 CFR 1910.1200).

Date of issue 6/19/2019

Safety Data Sheet

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

Product identifier:

Product name: Lysis Buffer
Product code: LDB-04

SDS NO: LDB04_JPE_1.1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KURABO INDUSTRIES LTD.

Address: Advanced Technology Center, 14-30 Shimokida-cho, Neyagawa, Osaka, 572-0823 JAPAN

 Division:
 Bio-Medical department

 Telephone number:
 +81-72-820-3079

 FAX:
 +81-72-820-3095

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

Relevant identified uses of the product: Reagents for automated nucleic acid isolation system

Uses advised against: For research use only

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

HEALTH HAZARDS Acute toxicity Oral: Category 4

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

Label elements



Signal word: Warning

HAZARD STATEMENT

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

PRECAUTIONARY STATEMENT

Prevention

P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves.

P280 Wear eye protection/face protection.

P270 Do not eat, drink or smoke when using this product.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P330 Rinse mouth.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Mixture/Substance selection

Mixture

Ingredient name	Content(%)	CAS No.
Guanidine hyrochloride	30-50	50-01-1
polyoxyethylene sorbitan fatty acid ester	5-10	-
hydrochloride salts of aminoalcohol	1-5	-
Water	Balance	7732-18-5

Note: The figures shown above are not the specifications of the product.

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

4. First-aid measures

Descriptions of first-aid measures Rescuers should wear proper personal protective equipment suitable for situation.

IF INHALED Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN(or hair) Remove contaminated clothing. Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES 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.

IF SWALLOWED Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Carbon dioxide, dry chemical and protein based foam.

Extinguishing media to avoid Non-

Special fire fighting Keep personnel removed from and upwind of fire. Water runoff can damage

the environment.

Procedures Dike and collect water used to fight fire Evacuate area and fight fire from a safe

distance.

Protection of fire-fighters Wear adequate personal protective equipment.

6. Accidental release measures

Personnel precautions, protective equipment and emergency measures

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

Environmental precautions

Prevent from entering into soil, waterways and ground water.

Clean-up methods and materials and containment measures

Spills should be contained by, and covered with suitable absorbent material and removed for disposal.

7. Handling and storage

Precautions for safe handling

Handling Technicalmeasures Avoid contact with skin, eyes and clothing. Wash hands after handling.

Local and general Use only with adequate ventilation.

ventilation

Precautions See Section 8 (Exposure Controls/Personal Protection).

Safehandling advice See Section 10 (Stability and reactivity).

Storage Suitable storage conditions Protect from sunlight. Keep container tightly closed.

8. Exposure controls/personal protection

Engineering measures

Evacuate and ventilate spill area. Provide easy access to water supply and eye wash facilities.

Personal protective equipment

Respiratory protection Wear suitable respiratory protection.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Hygiene measures

When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information	on	basic	phy	vsical	and	chemical	pro	perties

Physical properties				
	Appearance:	Liquid		
	Color:	Colourless to light yellow, Clear		
	Odor:	Practically odourless		
	pH:	6 Approx.		
	Flash point:	Not flammable		
	Auto-ignition temperature	Not flammable		
Solubility				
	Solubility in water:	Completely soluble		

10. Stability and Reactivity

Chemical stability Stable under normal storage/handling conditions.

Conditions to avoid Freezing. Protect against direct sunlight.

Hazardous decomposition products CO, CO2 Nitrogen oxides (NOx).

11. Toxicological Information

Acute toxicity Harmful if swallowed.

TestResults Acute OralLD50Rat:> 500mg/kg

Skin corrosion/irritation moderate
Serious eyedamage/eye irritation weakly irritant

Carcinogenicity Substances in group [1;2A;2B] by IARC(International Agencyfor Research onCancer):None

12. Ecological Information

Bioaccumulation Not established.

Mobilityinsoil Not established.

Otherhazardous effects Not established

13. Disposal considerations

When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste. Follow the laws and regulations in your country while disposing of this product or waste.

14. Transport Information

UN No, UN CLASS Not applicable to UN NO.

Marine transportation is regulated by IMDG Code. Air transportation is regulated by IATA Dangerous Goods Regulations.

IMDG Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

15. Regulatory Information

Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances

Class 1 Specified Chemical Substance: Not regulated.
Class 2 Specified Chemical Substance: Not regulated.
Type 1 Monitoring Chemical Substance: Not regulated.
Type 2 Monitoring Chemical Substance: Not regulated.
Type 3 Monitoring Chemical Substance: Not regulated.

Industrial Safety and Health Law

Dangerous Substances Flammable: Not regulated. Dangerous Substances Flammable Gases: Not regulated. Dangerous Substances Oxidizing: Not regulated. Dangerous Substances Explosives: Not regulated. Dangerous Substances Ignitable: Not regulated. Harmful Substances Carcinogen: Not regulated. Class 1 Designated Chemical Substances: Not regulated. Class 2 Designated Chemical Substances: Not regulated. Class 3 Designated Chemical Substances: Not regulated. Class 1 Organic Solvents Preparations:

Class 2 Organic Solvents Preparations:

Not regulated.

Class 3 Organic Solvents Preparations:

Not regulated.

Notifiable Substance:

Labeling Requirements:

Not regulated.

Not regulated.

Not regulated.

Not regulated.

Poisonous and Deleterious Substances Control Law

Specified Poisonous Substance - Main Law: Not regulated. Specified Poisonous Substance - Cabinet Order: Not regulated. Poisonous Substances - Main Law: Not regulated. Poisonous Substances - Cabinet Order: Not regulated. Deleterious Substances - Main Law: Not regulated. Deleterious Substances - Cabinet Order: Not regulated. Enforcement Order Article 32-2: Not regulated. Enforcement Order Article 32-3: Not regulated. Not Considered Poisonous: Not regulated. Not Considered Deleterious: Not regulated. Cabinet Order, Preparations: Not regulated.

Fire Service Law

Class 1 Oxidizing Solids: Not regulated. Class 2 Flammable Solids: Not regulated. Class 3 Spontaneous combustibility and Not regulated. Water-reactivity Substances: Not regulated. Class 4 Flammable Liquids: Not regulated. Class 5 Self-Reactive Substances: Not regulated. Class 6 Oxidizing Liquids: Not regulated. Designated Flammable Substances: Not regulated. Storage Reporting Substance: Not regulated.

Japan PRTR

Specific Class 1 Designated Substance: Not regulated. Class 1 Designated Substance: Not regulated. Class 2 Designated Substance: Not regulated. Ship Safety Law Not regulated. Civil Aeronautics law Not regulated. Japan Marine Pollution Prevention Law Not regulated. High Pressure Gas Safety law Not regulated. Gun Powder Control Law Not regulated.

16. Other information

GHS classification and labelling

Acute Tox. 4: H302 Harmful if swallowed Skin Irrit. 2: H315 Causes skin irritation Eye Irrit. 2: H319 Causes serious eye irritation

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3–1 ECNO6182012) JIS Z 7252:2014, JIS Z 7253:2012

NITE CHRIP (http://www.safe.nite.go.jp/japan/sougou/view/SystemTop_jp.faces)

General Disclaimer

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Date of issue 6/19/2019

Safety Data Sheet

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

Product identifier:

Product name: Wash Buffer
Product code: WDB-03

SDS NO: WDB03_JPE_1.1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KURABO INDUSTRIES LTD.

Address: Advanced Technology Center, 14-30 Shimokida-cho, Neyagawa, Osaka, 572-0823 JAPAN

 Division:
 Bio-Medical department

 Telephone number:
 +81-72-820-3079

 FAX:
 +81-72-820-3095

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

Relevant identified uses of the product: Reagents for automated nucleic acid isolation system

Uses advised against: For research use only

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

Not applicable to GHS classification

Label elements

No hazard pictogram No Signal word

3. Composition/information on ingredients

Mixture/Substance selection

Mixture

Ingredient name	Content(%)	CAS No.	
sodium chloride	0.5 - 1.5	7647-14-5	
Water	Balance	7732-18-5	

Note: The figures shown above are not the specifications of the product.

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

4. First-aid measures

Descriptions of first-aid measures Rescuers should wear proper personal protective equipment suitable for situation.

IF INHALED Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN(or hair) Remove contaminated clothing. Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES 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.

IF SWALLOWED Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Carbon dioxide, dry chemical and protein based foam.

Extinguishing media to avoid None

Special fire fighting Keep personnel removed from and upwind of fire. Water runoff can damage

the environment.

Procedures Dike and collect water used to fight fire Evacuate area and fight fire from a safe

distance.

Protection of fire-fightersWear adequate personal protective equipment.

6. Accidental release measures

Personnel precautions, protective equipment and emergency measures

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

Environmental precautions

Prevent from entering into soil, waterways and ground water.

Clean-up methods and materials and containment measures

Spills should be contained by, and covered with suitable absorbent material and removed for disposal.

7. Handling and storage

Precautions for safe handling

Handling Technicalmeasures Avoid contact with skin, eyes and clothing. Wash hands after handling.

Local and general Use only with adequate ventilation.

ventilation

Precautions See Section 8 (Exposure Controls/Personal Protection).

Safehandling advice See Section 10 (Stability and reactivity).

Storage Suitable storage conditions Protect from sunlight. Keep container tightly closed.

8. Exposure controls/personal protection

Engineering measures

Evacuate and ventilate spill area. Provide easy access to water supply and eye wash facilities.

Personal protective equipment

Respiratory protection Wear suitable respiratory protection.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical pro	pperties	
	Appearance:	Liquid
	Color:	Colourless, Clear
	Odor:	Odourless
	pH:	7.5
	Flash point:	Not flammable
	Auto-ignition temperature	Not flammable
Solubility		
	Solubility in water:	Completely soluble
Viscosity		Like water

10. Stability and Reactivity

Chemical stability Stable under normal storage/handling conditions.

Conditions to avoid Freezing. Protect against direct sunlight.

Hazardous decomposition products CO, CO2 Nitrogen oxides (NOx).

11. Toxicological Information

Acute toxicity

 $\begin{tabular}{ll} TestResults & Acute Oral LD50 Rat: $\geq 2000 \ mg/kg \\ \end{tabular}$

Skin corrosion/irritation No irritation
Serious eyedamage/eye irritation non irritant

Carcinogenicity Substances in group [1;2A;2B] by IARC (International Agency for Research on Cancer):None

12. Ecological Information

BioaccumulationNot established.MobilityinsoilNot established.Otherhazardous effectsNot established

13. Disposal considerations

When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste. Follow the laws and regulations in your country while disposing of this product or waste.

14. Transport Information

UN No, UN CLASS Not applicable to UN NO.

Marine transportation is regulated by IMDG Code. Air transportation is regulated by IATA Dangerous Goods Regulations.

IMDG Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

15. Regulatory Information

Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances

Class 1 Specified Chemical Substance: Not regulated.
Class 2 Specified Chemical Substance: Not regulated.
Type 1 Monitoring Chemical Substance: Not regulated.
Type 2 Monitoring Chemical Substance: Not regulated.
Type 3 Monitoring Chemical Substance: Not regulated.

Industrial Safety and Health Law

Dangerous Substances Flammable: Not regulated. Dangerous Substances Flammable Gases: Not regulated. Dangerous Substances Oxidizing: Not regulated. Dangerous Substances Explosives: Not regulated. Dangerous Substances Ignitable: Not regulated. Not regulated. Harmful Substances Carcinogen: Class 1 Designated Chemical Substances: Not regulated. Class 2 Designated Chemical Substances: Not regulated. Class 3 Designated Chemical Substances: Not regulated. Class 1 Organic Solvents Preparations: Not regulated. Class 2 Organic Solvents Preparations: Not regulated. Class 3 Organic Solvents Preparations: Not regulated. Notifiable Substance: Not regulated. Labeling Requirements: Not regulated. Others: Not regulated.

Poisonous and Deleterious Substances Control Law

Specified Poisonous Substance - Main Law: Not regulated. Specified Poisonous Substance - Cabinet Order: Not regulated. Poisonous Substances - Main Law: Not regulated. Poisonous Substances - Cabinet Order: Not regulated. Deleterious Substances - Main Law: Not regulated. Deleterious Substances - Cabinet Order: Not regulated. Enforcement Order Article 32-2: Not regulated. Enforcement Order Article 32-3: Not regulated. Not Considered Poisonous: Not regulated. Not Considered Deleterious: Not regulated. Cabinet Order, Preparations: Not regulated.

Fire Service Law

Class 1 Oxidizing Solids: Not regulated Class 2 Flammable Solids: Not regulated. Class 3 Spontaneous combustibility and Not regulated. Water-reactivity Substances: Not regulated. Class 4 Flammable Liquids: Not regulated. Class 5 Self-Reactive Substances: Not regulated. Class 6 Oxidizing Liquids: Not regulated. Designated Flammable Substances: Not regulated. Storage Reporting Substance: Not regulated.

Japan PRTR

Specific Class 1 Designated Substance: Not regulated.

Class 1 Designated Substance: Not regulated.

Class 2 Designated Substance: Not regulated.

Ship Safety Law Not regulated.
Civil Aeronautics law Not regulated.
Japan Marine Pollution Prevention Law Not regulated.
High Pressure Gas Safety law Not regulated.
Gun Powder Control Law Not regulated.

16. Other information

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3–1 ECNO6182012) JIS Z 7252:2014, JIS Z 7253:2012

 ${\tt NITE\ CHRIP\ (http://www.safe.nite.go.jp/japan/sougou/view/SystemTop.jp.faces)}$

General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

Date of issue 6/19/2019

Safety Data Sheet

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

Product identifier:

Product name: Elution Buffer
Product code: CDB-02

SDS NO: WDB03_JPE_1.1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KURABO INDUSTRIES LTD.

Address: Advanced Technology Center, 14-30 Shimokida-cho, Neyagawa, Osaka, 572-0823 JAPAN

 Division:
 Bio-Medical department

 Telephone number:
 +81-72-820-3079

 FAX:
 +81-72-820-3095

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

Relevant identified uses of the product: Reagents for automated nucleic acid isolation system

Uses advised against: For research use only

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

Not applicable to GHS classification

Label elements

No hazard pictogram No Signal word

3. Composition/information on ingredients

Mixture/Substance selection

Mixture

Ingredient name	Content(%)	CAS No.
Water	80-100	7732-18-5

Note: The figures shown above are not the specifications of the product.

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

4. First-aid measures

Descriptions of first-aid measures Rescuers should wear proper personal protective equipment suitable for situation.

IF INHALED Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN(or hair) Remove contaminated clothing. Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES 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.

IF SWALLOWED Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Carbon dioxide, dry chemical and protein based foam.

Extinguishing media to avoid None

Special fire fighting Keep personnel removed from and upwind of fire. Water runoff can damage

the environment.

Procedures Dike and collect water used to fight fire Evacuate area and fight fire from a safe

distance.

Protection of fire-fighters Wear adequate personal protective equipment.

6. Accidental release measures

Personnel precautions, protective equipment and emergency measures

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

Environmental precautions

Prevent from entering into soil, waterways and ground water.

Clean-up methods and materials and containment measures

Spills should be contained by, and covered with suitable absorbent material and removed for disposal.

7. Handling and storage

Precautions for safe handling

Handling Technicalmeasures Avoid contact with skin, eyes and clothing. Wash hands after handling.

Local and general Use only with adequate ventilation.

ventilation

Precautions See Section 8 (Exposure Controls/Personal Protection).

Safehandling advice See Section 10 (Stability and reactivity).

Storage Suitable storage conditions Protect from sunlight. Keep container tightly closed.

8. Exposure controls/personal protection

Engineering measures

Evacuate and ventilate spill area. Provide easy access to water supply and eye wash facilities.

Personal protective equipment

Respiratory protection Wear suitable respiratory protection.

Hand protection Wear suitable gloves.

Eye protection Use eye protection. Use face shield in case of splash risk.

Skin and body protection Wear suitable protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties			
	Appearance:	Liquid	
	Color:	Colourless, Clear	
	Odor:	Odourless	
	pH:	9	
	Flash point:	Not flammable	
	Auto-ignition temperature	Not flammable	
Solubility			
	Solubility in water:	Completely soluble	
Viscosity		Like water	

10. Stability and Reactivity

Chemical stability Stable under normal storage/handling conditions.

Conditions to avoid Freezing. Protect against direct sunlight.

Hazardous decomposition products CO, CO2 Nitrogen oxides (NOx).

11. Toxicological Information

Acute toxicity

Skin corrosion/irritation No irritation
Serious eyedamage/eye irritation non irritant

Carcinogenicity Substances in group [1;2A;2B] by IARC (International Agency for Research on Cancer):None

12. Ecological Information

BioaccumulationNot established.MobilityinsoilNot established.Otherhazardous effectsNot established

13. Disposal considerations

When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste. Follow the laws and regulations in your country while disposing of this product or waste.

14. Transport Information

UN No, UN CLASS Not applicable to UN NO.

Marine transportation is regulated by IMDG Code. Air transportation is regulated by IATA Dangerous Goods Regulations.

IMDG Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

15. Regulatory Information

Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances

Class 1 Specified Chemical Substance: Not regulated.
Class 2 Specified Chemical Substance: Not regulated.
Type 1 Monitoring Chemical Substance: Not regulated.
Type 2 Monitoring Chemical Substance: Not regulated.
Type 3 Monitoring Chemical Substance: Not regulated.

Industrial Safety and Health Law

Dangerous Substances Flammable: Not regulated. Dangerous Substances Flammable Gases: Not regulated. Dangerous Substances Oxidizing: Not regulated. Dangerous Substances Explosives: Not regulated. Dangerous Substances Ignitable: Not regulated. Not regulated. Harmful Substances Carcinogen: Class 1 Designated Chemical Substances: Not regulated. Class 2 Designated Chemical Substances: Not regulated. Class 3 Designated Chemical Substances: Not regulated. Class 1 Organic Solvents Preparations: Not regulated. Class 2 Organic Solvents Preparations: Not regulated. Class 3 Organic Solvents Preparations: Not regulated. Notifiable Substance: Not regulated. Labeling Requirements: Not regulated. Others: Not regulated.

Poisonous and Deleterious Substances Control Law

Specified Poisonous Substance - Main Law: Not regulated. Specified Poisonous Substance - Cabinet Order: Not regulated. Poisonous Substances - Main Law: Not regulated. Poisonous Substances - Cabinet Order: Not regulated. Deleterious Substances - Main Law: Not regulated. Deleterious Substances - Cabinet Order: Not regulated. Enforcement Order Article 32-2: Not regulated. Enforcement Order Article 32-3: Not regulated. Not Considered Poisonous: Not regulated. Not Considered Deleterious: Not regulated. Cabinet Order, Preparations: Not regulated.

Fire Service Law

Not regulated. Class 1 Oxidizing Solids: Class 2 Flammable Solids: Not regulated. Class 3 Spontaneous combustibility and Not regulated. Water-reactivity Substances: Not regulated. Class 4 Flammable Liquids: Not regulated. Class 5 Self-Reactive Substances: Not regulated. Class 6 Oxidizing Liquids: Not regulated. Designated Flammable Substances: Not regulated. Storage Reporting Substance: Not regulated.

Japan PRTR

Specific Class 1 Designated Substance: Not regulated.

Class 1 Designated Substance: Not regulated.

Class 2 Designated Substance: Not regulated.

Ship Safety Law Not regulated.
Civil Aeronautics law Not regulated.
Japan Marine Pollution Prevention Law Not regulated.
High Pressure Gas Safety law Not regulated.
Gun Powder Control Law Not regulated.

16. Other information

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3–1 ECNO6182012) JIS Z 7252:2014, JIS Z 7253:2012

 ${\tt NITE\ CHRIP\ (http://www.safe.nite.go.jp/japan/sougou/view/SystemTop.jp.faces)}$

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This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.