

1. Identification	
Product identifier	CircuLex S100A13 ELISA Kit
	Stop Solution
Other means of identification	
Product code	CY-8057
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Sup	plier / Distributor information
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number	+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax	+81-52-238-1440
E-mail	sds-support@mbl.co.jp
URL	http://www.mbl.co.jp/e/index.html
Contact person	SDS Support
Supplier	MBL International Corporation
	15A Constitution Way, Woburn, MA 01801, USA
Telephone number	+1-800-200-5459, option 3
Fax	+1-781-939-6963
E-mail	tech@mblintl.com
URL	http://www.mblintl.com/
Contact person	Technical Service

2. Hazard(s) identification

Physical hazards Health hazards OSHA hazard(s)	Not classified. Skin corrosion/irritation Serious eye damage/eye irritation Not classified.	Category 1 Category 1	
Label elements			
Hazard symbol			
Signal word	Danger		
Hazard statement	Causes severe skin burns and eye damag	je.	
Precautionary statement			
Prevention	Do not breathe dust or mist. Wear protection protection. Wash thoroughly after handling	ive gloves/protective clothing/eye protection/face g.	
Response	IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.		
Storage	Store locked up.		
Disposal	Dispose of contents/container in accordan regulations.	nce with local/regional/national/international	
Hazard(s) not otherwise classified (HNOC)	None.		

3. Composition/Information on ingredients Mixtures

Chemical name	CAS number %
Sulfuric acid	7664-93-9 < 10
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
4. First-aid measures	
Inhalation	Move injured person into fresh air and keep person calm under observation. If breathing is difficult, trained personnel should give oxygen. Get medical attention if any discomfort continues.
Skin contact	Take off immediately all contaminated clothing. Flush skin thoroughly with water. Get medical attention immediately. Chemical burns must be treated by a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention if any discomfort continues.
Most important symptoms/ effects, acute and delayed	Burning pain and severe corrosive skin damage. Extreme irritation of eyes and mucous membranes, including burning and tearing.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	First aid personnel must be aware of own risk during rescue.
5. Fire-fighting measures	5
Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.
	By heating and fire, harmful vapors/gases may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire-fighting equipment/ instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
6. Accidental release me	asures
Personal precautions, protective equipment and emergency procedures	Avoid inhalation of spray mist and contact with skin and eyes. Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	Absorb spillage with non-combustible, absorbent material. Collect in containers and seal securely.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid inhalation of spray mist and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene
Conditions for safe storage, including any incompatibilities	Keep container closed. Do not store near heat sources or expose to high temperatures. Protect from direct sunlight.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Туре	Value	
Sulfuric acid (CAS 7664-93-9)	PEL	1 mg/m3	

US. ACGIH Threshold Limit Values

Components		Туре	Value	Form
Sulfuric acid (CAS 7664-9	Sulfuric acid (CAS 7664-93-9)		0.2 mg/m3	Thoracic fraction
US. NIOSH: Pocket Guid	e to Chemical H	lazards		
Components		Туре	Value	
Sulfuric acid (CAS 7664-9	3-9)	REL	1 mg/m3	
Biological limit values	No biological e	exposure limits noted	for the ingredient(s).	
Appropriate engineering controls				re limits and minimize the risk of supply and eye wash facilities.
Individual protection measure	es, such as per	sonal protective eq	uipment	
Eye/face protection	Wear approve	d chemical safety go	ggles.	
Skin protection				
Hand protection	but be aware t	hat the liquid may pe	•	ubber gloves are recommended, uent change is advisable.
Other	Wear protectiv	e clothing appropriat	e for the risk of exposure	Э.
Respiratory protection			e the applicable exposur spirator with acid gas car	e limits, use NIOSH approved rtridge.
Thermal hazards	Wear appropri	ate thermal protectiv	e clothing, when necess	ary.
General hygiene considerations	material and b	• • •	g, and/or smoking. Routir	washing after handling the hely wash work clothing and

9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Flammability limit	Not available.
- lower (%)	
Flammability limit	Not available.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
(<i>n</i> -octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

ReactivityReacts violently with strong bases.Chemical stabilityStable under normal temperature conditions.

Possibility of hazardous This product may react with reducing agents.				
eactions				
Conditions to avoid Sunlight. Heat. Freezing.				
ncompatible materials Reducing agents. Alkalis. Metals.				
lazardous decomposition Sulfur dioxide.				
products				
1. Toxicological information				
nformation on likely routes of exposure				
Ingestion May cause discomfort if swallowed. Ingestion may cause nausea, headache and	dizziness.			
Inhalation Spray mists may cause respiratory tract irritation.				
Skin contact Causes skin burns.				
Eye contact Causes severe eye burns.				
Symptoms related to the Burning pain and severe corrosive skin damage. Extreme irritation of eyes and m	iucous			
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Specific target organ toxicityNo data available.- repeated exposureNo data available.Aspiration hazardNo data available.

12. Ecological information

- single exposure

Ecotoxicity	Large amounts of th harmful effects to ac	e product may affect the acidity (pH-factor) juatic organisms.	in water with possible risk of
Components		Species	Test Results
Sulfuric acid (CAS 7664-93	3-9)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	42 mg/L, 96 hours
Persistence and degradability	No data available.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Mobility in general	The product is water	soluble and may spread in water systems.	
Other adverse effects	None known.		

13. Disposal considerations

Disposal instructions

Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.

Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	D002: Corrosive waste
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in same manner as unused product.

14. Transport information

DOT	
UN number	UN2796
UN proper shipping name	Sulphuric acid solution
Transport hazard class(es)	8
Subsidiary class(es)	-
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Labels required	8
Special provisions	A3, A7, B2, B15, IB2, N6, N34, T8, TP2, TP12
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN2796
UN proper shipping name	Sulphuric acid solution
Transport hazard class(es)	8
Subsidiary class(es)	-
Packaging group	II
Environmental hazards	No
Labels required	8
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN2796
UN proper shipping name	Sulphuric acid solution
Transport hazard class(es)	8
Subsidiary class(es)	-
Packaging group	II
Environmental hazards	
Marine pollutant	No
Labels required	8
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US federal regulations	This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.		
TSCA Section 12(b) Expo	rt Notification (40 CFR 707, Subpt. D)	Not regulated.	
OSHA Specifically Regula	ated Substances (29 CFR 1910.1001-1050	Not listed.	
CERCLA Hazardous Substance List (40 CFR 302.4) Sulfuric acid (CAS 7664-93-9)		Listed.	

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories			Immediate Ha Delayed Haza Fire Hazard - Pressure Haz Reactivity Ha:	ard - No No ard - No
SARA 302 Extremely ha	zardous substance		No	
SARA 311/312 Hazardou	us chemical		Yes	
SARA 313 (TRI reporting	g)		Not regulated	
Other federal regulations				
-	tion 112 Hazardous Air Pollutants (HAPs)) List	Not regulated	
. ,	ction 112(r) Accidental Release Prevention		Sulfuric acid	
		((CAS 7664-93	3-9)
Safe Drinking Water Act	t (SDWA)		Not regulated	
-	inistration (DEA). List 2, Essential	Sulfuric acid (CAS 7	•	6552
	0.02(b) and 1310.04(f)(2) and Chemical	, ,	,	
Drug Enforcement Admi Chemical Mixtures (21 C	inistration (DEA). List 1 & 2 Exempt CFR 1310.12(c))	Sulfuric acid (CAS 7	'664-93-9)	20%W/V
DEA Exempt Chemical N	Mixtures Code Number	Sulfuric acid (CAS 7	'664-93-9)	6552
US state regulations	WARNING: This product contains a chem	ical known to the Stat	e of California t	o cause
Massachusetts RTK - Su	-	Sulfuric acid (CAS 7		
New Jersey Worker and	Community Right-to-Know Act	Sulfuric acid (CAS 7	,	500 lbs
Pennsylvania RTK - Haz		Sulfuric acid (CAS 7	,	
Rhode Island RTK		Sulfuric acid (CAS 7	,	
California Proposition 6 (CRT)	5 - Carcinogens & Reproductive Toxicity	Sulfuric acid (CAS 7	7664-93-9) ,	
International Inventories				
Country(s) or region	Inventory name		On inventory	(yes/no)*
		· · · ·		

Country(s) or region	Inventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes
Rico		

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Issue date	01/30/2016
Revision date	09/30/2016
Version	10
List of abbreviations	LC50: Lethal Concentration, 50%.
	LD50: Lethal Dose, 50%.
Further information	Not available.
References	IUCLID (2000)
	RTECS (2006, 2008)
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



1. Identification	
Product identifier	CircuLex S100A13 ELISA Kit
	Dilution Buffer
Other means of identification	
Product code	CY-8057
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Sup	plier / Distributor information
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number	+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax	+81-52-238-1440
E-mail	sds-support@mbl.co.jp
URL	http://www.mbl.co.jp/e/index.html
Contact person	SDS Support
Supplier	MBL International Corporation
	15A Constitution Way, Woburn, MA 01801, USA
Telephone number	+1-800-200-5459, option 3
Fax	+1-781-939-6963
E-mail	tech@mblintl.com
URL	http://www.mblintl.com/
Contact person	Technical Service

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA hazard(s)	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	None.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise	None.
classified (HNOC)	
Supplemental information	None.

3. Composition/Information on ingredients

Mixtures		
Chemical name	CAS number	%
Sodium azide	26628-22-8	< 0.1
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.	

4. First-aid measures	
Inhalation Skin contact	Move to fresh air. Get medical attention if any discomfort continues. Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

Eye contact	Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.
Ingestion	Rinse mouth thoroughly. Get medical attention if any discomfort occurs.
Most important symptoms/ effects, acute and delayed	Dry skin.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.		
Specific hazards arising from the chemical	None known.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.		
Fire-fighting equipment/ instructions	Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Prevent entry to sewers and public waters.		
General fire hazards	The product is non-combustible.		
6. Accidental release measures			

Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid inhalation of mist and contact with skin and eyes. For personal protection, see Section 8 of the SDS.
Methods and materials for containment and cleaning up Environmental precautions	Absorb spillage with suitable absorbent material. After removal, flush contaminated area thoroughly with water. For waste disposal, see Section 13 of the SDS. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling	Avoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value
Sodium azide (CAS 26628-22-8)	Ceiling	0.29 mg/m3
		0.11 ppm

Components	Туре	Value	
Sodium azide (CAS 26628-22-8)	Ceiling	0.3 mg/m3	
		0.1 ppm	

Biological limit values Appropriate engineering No biological exposure limits noted for the ingredient(s).

Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Risk of splashes: Wear safety glasses with side shields.

Skin protection

Hand protection

Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Other	Wear appropriate clothing to prevent repeated or prolonged skin contact.	
Respiratory protection	No special precautions. Seek advice from local supervisor.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene	Handle in accordance with good industrial hygiene and safety practice. Wash hands after	
considerations	handling. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	Neutral.
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	explosive limits
Flammability limit	Not available.
- lower (%)	
Flammability limit	Not available.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
(<i>n</i> -octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Sodium azide: Reacts with copper, lead, silver, mercury and carbon disulfide to form particularly shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide.
Conditions to avoid	None known.
Incompatible materials	Heavy metals. Acids.
Hazardous decomposition products	None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Large quantities: May cause discomfort if swallowed.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Dry skin.
Information on toxicological e	effects

Acute toxicity Skin corrosion/irritation Serious eye damage/eye irritation	Large quantities: May cause discomfort if sw May cause mild skin irritation. May cause eye irritation.	vallowed.
Respiratory sensitization	Based on available data, the classification c	riteria are not met.
Skin sensitization	Based on available data, the classification c	riteria are not met.
Germ cell mutagenicity	No data available.	
Carcinogenicity		
IARC Monographs. Overall Evaluation of Carcinogenicity		Not listed.
NTP Report on Carcinogens		Not listed.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.		
Reproductive toxicity	No data available.	
Specific target organ toxicity	No data available.	
 single exposure 		
Specific target organ toxicity - repeated exposure	No data available.	
Aspiration hazard	Based on available data, the classification c	riteria are not met.
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Mobility in general	The product is water soluble and may spread in water systems.
Other adverse effects	The environmental hazard of the product is considered to be limited.

13. Disposal considerations

Disposal instructions	Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in same manner as unused product.
44 Tronon out informatio	-

14. Transport information

DOT	Not regulated as dangerous goods.
ΙΑΤΑ	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according	Not applicable.
to Annex II of MARPOL 73/78	
and the IBC Code	

15. Regulatory information

 US federal regulations
 This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

 TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
 Not regulated.

 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
 Not listed.

 CERCLA Hazardous Substance List (40 CFR 302.4)
 Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories		Immediate Hazard - No
		Delayed Hazard - No
		Fire Hazard - No
		Pressure Hazard - No
		Reactivity Hazard - No
SARA 302 Extremely haz		No
SARA 311/312 Hazardou	s chemical	No
SARA 313 (TRI reporting)	Not regulated.
Other federal regulations		
Clean Air Act (CAA) Sect	tion 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Sect	tion 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act	(SDWA)	Not regulated.
Food and Drug Administ	ration (FDA)	Not regulated.
US state regulations	This product does not contain a chemical known to the State of birth defects or other reproductive harm.	California to cause cancer,
Massachusetts RTK - Su	bstance List	Not listed.
New Jersey Worker and	Community Right-to-Know Act	Not listed.
Pennsylvania RTK - Haza		Not listed.
Rhode Island RTK		Not listed.
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)		Not listed.
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (F	PICCS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes
Rico		
*A "Ves" indicates this prov	duct complies with the inventory requirements administered by th	e aoverning country(s)

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Issue date	01/30/2016
Revision date	09/30/2016
Version	10
Further information	Not available.
References	Registry of Toxic Effects of Chemical Substances (RTECS) HSDB® - Hazardous Substances Data Bank
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



1. Identification	
Product identifier	CircuLex S100A13 ELISA Kit
	10X Wash Buffer
Other means of identification	
Product code	CY-8057
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Sup	plier / Distributor information
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number	+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax	+81-52-238-1440
E-mail	sds-support@mbl.co.jp
URL	http://www.mbl.co.jp/e/index.html
Contact person	SDS Support
Supplier	MBL International Corporation
	15A Constitution Way, Woburn, MA 01801, USA
Telephone number	+1-800-200-5459, option 3
Fax	+1-781-939-6963
E-mail	tech@mblintl.com
URL	http://www.mblintl.com/
Contact person	Technical Service

2. Hazard(s) identification

Not classified.
Not classified.
Not classified.
None.
None.
None.
Observe good industrial hygiene practices.
Wash thoroughly after handling.
None.
None.
None.

3. Composition/Information on ingredients

Mixtures

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First-aid measures	
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if irritation develops or persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.

Ingestion	No adverse effects due to ingestion are expected. Get medical attention if any discomfort occurs.
Most important symptoms/ effects, acute and delayed	Dry skin.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire-fighting equipment/ instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	The product is non-combustible.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS.
Methods and materials for containment and cleaning up Environmental precautions	Absorb spillage with non-combustible, absorbent material. After removal, flush contaminated area thoroughly with water. For waste disposal, see Section 13 of the SDS. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling	Avoid prolonged and repeated contact. Wear appropriate personal protective equipment.
	Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep container closed.

8. Exposure controls/personal protection

• •	•	
Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering	Provide adequate ventilation.	
controls		
Individual protection measure	s, such as personal protective equipment	
Eye/face protection	If risk of splashing, wear safety goggles or face shield.	
Skin protection		
Hand protection	Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.	
Other	Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.	
Respiratory protection	No protection is ordinarily required under normal conditions of use.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Flammability limit	Not available.
- lower (%)	
Flammability limit	Not available.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
(<i>n</i> -octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Viscosity 10. Stability and reactivi	

10. Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and
Chemical stability	Stable at normal conditions.
Possibility of hazardous	None known.
reactions	
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition	No hazard in normal industrial use.
products	

11. Toxicological information

Information on likely routes of	of exposure	
Ingestion	Large quantities: May cause discomfort if swallowed.	
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Symptoms related to the	Dry skin.	
physical, chemical and toxicological characteristics		
Information on toxicological	effects	
Acute toxicity	Large quantities: May cause discomfort if swallowed.	
Skin corrosion/irritation	Prolonged contact may cause dryness of the skin.	
Serious eye damage/eye	Direct contact with eyes may cause temporary irritation.	
irritation		
Respiratory sensitization	No data available.	
Skin sensitization	Not a skin sensitizer.	
Germ cell mutagenicity	No data available.	
Carcinogenicity	No data available.	
Reproductive toxicity	No data available.	

No data available.
No data available.
No data available.

12. Ecological information	n
Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Mobility in general	The product is water soluble and may spread in water systems.
Other adverse effects	No data available.

13. Disposal considerations

Disposal instructions	Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused	Dispose of in accordance with local regulations.
products	
Contaminated packaging	Dispose of in same manner as unused product.

14. Transport information

DOT	Not regulated as dangerous goods.
ΙΑΤΑ	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according	Not applicable.
to Annex II of MARPOL 73/78	
and the IBC Code	

15. Regulatory information

0 ,		
US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.		0.1200.
TSCA Section 12(b) Ex	port Notification (40 CFR 707, Subpt. D)	Not regulated.
	ulated Substances (29 CFR 1910.1001-1050)	Not listed.
	ubstance List (40 CFR 302.4)	Not listed.
Superfund Amendments an	d Reauthorization Act of 1986 (SARA)	
Hazard categories		Immediate Hazard - No
		Delayed Hazard - No
		Fire Hazard - No
		Pressure Hazard - No
		Reactivity Hazard - No
SARA 302 Extremely h	azardous substance	No
SARA 311/312 Hazardous chemical		No
SARA 313 (TRI reporting)		Not regulated.
Other federal regulations		
Clean Air Act (CAA) Se	ction 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)		Not regulated.
Safe Drinking Water Act (SDWA)		Not regulated.
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR		Not listed.
1310.02(b) and 1310.04	(f)(2) and Chemical Code Number	
	ninistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21	Not regulated.

DEA Exempt Chemical N Food and Drug Administ		Not regulated. Not regulated.	
US state regulations	This product does not contain a chemical known to the State o birth defects or other reproductive harm.	f California to caus	se cancer,
Massachusetts RTK - Su	bstance List	Not regulated.	
New Jersey Worker and	Community Right-to-Know Act	Not regulated.	
Pennsylvania RTK - Haza	ardous Substances	Not regulated.	
Rhode Island RTK		Not regulated.	
California Proposition 65	- Carcinogens & Reproductive Toxicity (CRT)	Not listed.	
International Inventories			
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)		Yes
Canada	Domestic Substances List (DSL)		Yes
Canada	Non-Domestic Substances List (NDSL)		No
China	Inventory of Existing Chemical Substances in China (IECSC)		Yes
Europe	EC Inventory		Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)		Yes
Korea	Existing Chemicals List (ECL)		Yes
New Zealand	New Zealand Inventory		Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (I	PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory		Yes
*A "Yes" indicates this pro	duct complies with the inventory requirements administered by the	ne aovernina count	rv(s).

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Issue date	01/30/2016
Revision date	09/30/2016
Version	10
Further information	Not available.
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



1. Identification	
Product identifier	CircuLex S100A13 ELISA Kit
	Human S100A13 Standard
Other means of identification	
Product code	CY-8057
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Sup	plier / Distributor information
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number	+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax	+81-52-238-1440
E-mail	sds-support@mbl.co.jp
URL	http://www.mbl.co.jp/e/index.html
Contact person	SDS Support
Supplier	MBL International Corporation
	15A Constitution Way, Woburn, MA 01801, USA
Telephone number	+1-800-200-5459, option 3
Fax	+1-781-939-6963
E-mail	tech@mblintl.com
URL	http://www.mblintl.com/
Contact person	Technical Service

2. Hazard(s) identification

Not classified.
Not classified.
Not classified.
None.
None.
None.
Observe good industrial hygiene practices.
Wash thoroughly after handling.
None.
None.
None.

3. Composition/Information on ingredients

Mixtures

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First-aid measures	
Inhalation	Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.
Skin contact	Wash contact areas with soap and water. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eye. Rinse the eye with water immediately. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.

Most important symptoms/ effects, acute and delayed	Dry skin.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire-fighting equipment/ instructions	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS.
Methods and materials for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. After removal, flush contaminated area thoroughly with water. Never return spills to original containers for re-use.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
7. Handling and storage	

Precautions for safe handling	Avoid prolonged and repeated contact. Wear appropriate personal protective equipment.
	Observe good industrial hygiene practices.
Conditions for safe storage,	Keep container closed.
including any	

incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits	• • • • • • • • • • • • • • • • • • • •
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide adequate ventilation. Minimize dust generation and accumulation. Provide easy access to water supply and eye wash facilities.
Individual protection measure	es, such as personal protective equipment
Eye/face protection	If risk of splashing, wear safety goggles or face shield.
Skin protection	
Hand protection	Wear protective gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
Other	Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	No protection is ordinarily required under normal conditions of use.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Powder.

Color	White.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	explosive limits
Flammability limit	Not available.
- lower (%)	
Flammability limit	Not available.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
(n-octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	No hazard in normal industrial use.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Large quantities: May cause discomfort if swallowed.
Inhalation	Dust may irritate respiratory system.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the	Dry skin.
physical, chemical and	
toxicological characteristics	
Information on toxicological e	ffects
Acute toxicity	Large quantities: May cause discomfort if swallowed.
Skin corrosion/irritation	Prolonged contact may cause dryness of the skin.
Serious eye damage/eye	Direct contact with eyes may cause temporary irritation.
irritation	
Respiratory sensitization	No data available.
Skin sensitization	Not a skin sensitizer.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity	No data available.
 single exposure 	

Specific target organ toxicity - repeated exposure	No data available.	
Aspiration hazard	No data available.	
12. Ecological information	on	
Ecotoxicity	The product components are not classified as environmentally does not exclude the possibility that large or frequent spills hav effect on the environment.	
Persistence and degradability Bioaccumulative potential Mobility in soil Mobility in general Other adverse effects	No data available. No data available. No data available. The product is water soluble and may spread in water systems No data available.	
13. Disposal considerati	ons	
Disposal instructions	Dispose of in accordance with all applicable regulations. Do no courses or onto the ground.	t discharge into drains, water
Local disposal regulations Hazardous waste code Waste from residues / unused products Contaminated packaging	Dispose of in accordance with local regulations. Not regulated. Dispose of in accordance with local regulations. Dispose of in same manner as unused product.	
14. Transport informatio	n	
DOT IATA IMDG Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated as dangerous goods. Not regulated as dangerous goods. Not regulated as dangerous goods. Not applicable.	
15. Regulatory information	on	
US federal regulations	This product is not hazardous according to OSHA 29CFR 1910	0.1200.
All components are on the U.S. EPA TSCA Inventory List. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.		Not listed.
Superfund Amendments and I Hazard categories SARA 302 Extremely haza	Reauthorization Act of 1986 (SARA) ardous substance	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No
SARA 311/312 Hazardous chemical SARA 313 (TRI reporting)		No Not regulated.
Clean Air Act (CAA) Secti Safe Drinking Water Act (Drug Enforcement Admin 1310.02(b) and 1310.04(f) Drug Enforcement Admin CFR 1310.12(c))	istration (DEA). List 2, Essential Chemicals (21 CFR (2) and Chemical Code Number histration (DEA). List 1 & 2 Exempt Chemical Mixtures (21	Not regulated. Not regulated. Not regulated. Not listed. Not regulated.
DEA Exempt Chemical Mixtures Code NumberNot regulated.Food and Drug Administration (FDA)Not regulated.		-

US state regulations	This product does not contain a chemical known to the State of birth defects or other reproductive harm.	California to cause cancer,
Massachusetts RTK - Su	·	Not regulated.
New Jersey Worker and	Community Right-to-Know Act	Not regulated.
Pennsylvania RTK - Haza	ardous Substances	Not regulated.
Rhode Island RTK		Not regulated.
California Proposition 65	5 - Carcinogens & Reproductive Toxicity (CRT)	Not listed.
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (P	ICCS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes

Rico

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Issue date	01/30/2016
Revision date	09/30/2016
Version	10
Further information	Not available.
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



1. Identification	
Product identifier	CircuLex S100A13 ELISA Kit
	Microplate
Other means of identification	
Product code	CY-8057
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Sup	plier / Distributor information
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number	+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax	+81-52-238-1440
E-mail	sds-support@mbl.co.jp
URL	http://www.mbl.co.jp/e/index.html
Contact person	SDS Support
Supplier	MBL International Corporation
	15A Constitution Way, Woburn, MA 01801, USA
Telephone number	+1-800-200-5459, option 3
Fax	+1-781-939-6963
E-mail	tech@mblintl.com
URL	http://www.mblintl.com/
Contact person	Technical Service

2. Hazard(s) identification

Not classified.
Not classified.
Not classified.
None.
None.
None.
Observe good industrial hygiene practices.
Wash thoroughly after handling.
None.
None.
None.

3. Composition/Information on ingredients

Mixtures

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First-aid measures	
Inhalation	Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.
Skin contact	Wash contact areas with soap and water. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eye. Rinse the eye with water immediately. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.

Most important symptoms/ effects, acute and delayed	Dry skin.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire-fighting equipment/ instructions	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS.
Methods and materials for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. After removal, flush contaminated area thoroughly with water. Never return spills to original containers for re-use.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
7. Handling and storage	

Precautions for safe handling	Avoid prolonged and repeated contact. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any	Keep container closed.

incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits Biological limit values Appropriate engineering controls	No biological exposure limits noted for the ingredient(s). Provide adequate ventilation.
Individual protection measure	s, such as personal protective equipment
Eye/face protection	If risk of splashing, wear safety goggles or face shield.
Skin protection	
Hand protection	Wear protective gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
Other	Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	No protection is ordinarily required under normal conditions of use.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid.

Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Flammability limit	Not available.
- lower (%)	
Flammability limit	Not available.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient	Not available.
(n-octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	No hazard in normal industrial use.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Large quantities: May cause discomfort if swallowed.	
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Symptoms related to the	Dry skin.	
physical, chemical and		
toxicological characteristics		
Information on toxicological e	ffects	
Acute toxicity	Large quantities: May cause discomfort if swallowed.	
Skin corrosion/irritation	Prolonged contact may cause dryness of the skin.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory sensitization	No data available.	
Skin sensitization	Not a skin sensitizer.	
Germ cell mutagenicity	No data available.	
Carcinogenicity	No data available.	
Reproductive toxicity	No data available.	
Specific target organ toxicity - single exposure	No data available.	

Specific target organ toxicity - repeated exposure	No data available.	
Aspiration hazard	No data available.	
12. Ecological information	on	
Ecotoxicity	The product components are not classified as environmentally does not exclude the possibility that large or frequent spills hav effect on the environment.	
Persistence and degradability Bioaccumulative potential	No data available. No data available.	
Mobility in soil	No data available.	
Mobility in general Other adverse effects	The product is water soluble and may spread in water systems No data available.	
13. Disposal consideration	Dispose of in accordance with all applicable regulations. Do no	t disabarga into draina, watar
Disposal instructions	courses or onto the ground.	i discharge into drains, water
Local disposal regulations	Dispose of in accordance with local regulations.	
Hazardous waste code Waste from residues / unused	Not regulated. Dispose of in accordance with local regulations.	
products		
Contaminated packaging	Dispose of in same manner as unused product.	
14. Transport information	n	
DOT	Not regulated as dangerous goods.	
IATA	Not regulated as dangerous goods.	
IMDG Transport in bulk apparding	Not regulated as dangerous goods.	
Transport in bulk according to Annex II of MARPOL 73/78	Not applicable.	
and the IBC Code		
15. Regulatory information	on	
US federal regulations	This product is not hazardous according to OSHA 29CFR 1910 All components are on the U.S. EPA TSCA Inventory List.).1200.
TSCA Section 12(b) Expo	rt Notification (40 CFR 707, Subpt. D)	Not regulated.
	ated Substances (29 CFR 1910.1001-1050)	Not listed.
CERCLA Hazardous Subs	stance List (40 CFR 302.4)	Not listed.
-	Reauthorization Act of 1986 (SARA)	
Hazard categories		Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely haza	ardous substance	No
SARA 311/312 Hazardous	chemical	No
SARA 313 (TRI reporting)		Not regulated.
Other federal regulations		
	on 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
	on 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated. Not regulated.
	Safe Drinking Water Act (SDWA) Not regulated. Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR Not listed.	
1310.02(b) and 1310.04(f)(2) and Chemical Code Number		
	(2) and Chemical Code Number	
		Not regulated.
Drug Enforcement Admin CFR 1310.12(c)) DEA Exempt Chemical Mi	(2) and Chemical Code Number istration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 xtures Code Number	Not regulated.
Drug Enforcement Admin CFR 1310.12(c))	(2) and Chemical Code Number istration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 xtures Code Number	-

S state regulations	This product does not contain a chemical known to the State of birth defects or other reproductive harm.	California to cause cance
Massachusetts RTK - Si	ubstance List	Not regulated.
New Jersey Worker and	Community Right-to-Know Act	Not regulated. Not regulated.
Pennsylvania RTK - Haz	ardous Substances	
Rhode Island RTK		Not regulated.
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)		Not listed.
ternational Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PI	CCS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Yes
Rico		

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Issue date	01/30/2016
Revision date	09/30/2016
Version	10
Further information	Not available.
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



1. Identification	
Product identifier	CircuLex S100A13 ELISA Kit
	Standard Reconstitution Buffer
Other means of identification	
Product code	CY-8057
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Sup	plier / Distributor information
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number	+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax	+81-52-238-1440
E-mail	sds-support@mbl.co.jp
URL	http://www.mbl.co.jp/e/index.html
Contact person	SDS Support
Supplier	MBL International Corporation
	15A Constitution Way, Woburn, MA 01801, USA
Telephone number	+1-800-200-5459, option 3
Fax	+1-781-939-6963
E-mail	tech@mblintl.com
URL	http://www.mblintl.com/
Contact person	Technical Service

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA hazard(s)	Not classified.
Environmental hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	None.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	None.
Disposal	None.
Hazard(s) not otherwise	None.
classified (HNOC)	

3. Composition/Information on ingredients

Mixtures	
----------	--

Chemical name	CAS number	%
Nonidet P-40	9016-45-9	0.05 - < 0.25
Composition comments	All concentrations are in percent by weil are in percent by volume.	ght unless ingredient is a gas. Gas concentrations

4. First-aid measures

Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact	Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if irritation develops or persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.
Ingestion	Drink plenty of water. Get medical attention if any discomfort occurs.
Most important symptoms/	Dry skin.
effects, acute and delayed	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.
Fire-fighting equipment/ instructions	Move containers from fire area if you can do that without risk. Use water spray to cool unopened containers. Prevent entry to sewers and pubic waters.
6. Accidental release me	asures
Personal precautions,	Avoid contact with eyes and prolonged skin contact. For personal protection, see Section 8

-	
Environmental precautions	Prevent further leakage or spillage if safe to do so.
containment and cleaning up	thoroughly with water. For waste disposal, see Section 13 of the SDS.
Methods and materials for	Absorb spillage with suitable absorbent material. After removal, flush contaminated area
emergency procedures	
protective equipment and	of the SDS.
Personal precautions,	Avoid contact with eyes and prolonged skin contact. For personal protection, see Section 8

7. Handling and storage

Precautions for safe handling	Avoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed.

8. Exposure controls/personal protection

F
No exposure limits noted for ingredient(s).
No biological exposure limits noted for the ingredient(s).
Ventilation is not normally required.
es, such as personal protective equipment
Risk of splashes: Wear safety glasses with side shields.
Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove supplier.
Wear appropriate clothing to prevent repeated or prolonged skin contact.
No special precautions. Seek advice from local supervisor.
Wear appropriate thermal protective clothing, when necessary.
Handle in accordance with good industrial hygiene and safety practice. Wash hands after
handling. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	Neutral.
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Flammability limit	Not available.
- lower (%)	
Flammability limit	Not available.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
(n-octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous	Hazardous reactions do not occur.
reactions	
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Large quantities: May cause discomfort if swallowed.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the	Dry skin.
physical, chemical and	
toxicological characteristics	
Information on toxicological e	effects
Acute toxicity	Large quantities: May cause discomfort if swallowed.
Skin corrosion/irritation	May cause mild skin irritation.
Serious eye damage/eye	May cause eye irritation.
irritation	
Respiratory sensitization	No data available.
Skin sensitization	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.

Specific target organ toxicity	No data available.
 single exposure 	
Specific target organ toxicity	No data available.
 repeated exposure 	
Aspiration hazard	Not classified.

12. Ecological information		
Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.	
Persistence and degradability	No data available.	
Bioaccumulative potential	No data available.	
Mobility in soil	Expected to be highly mobile in soil.	
Mobility in general	The product is water soluble and may spread in water systems.	
Other adverse effects	Not available.	

13. Disposal considerations

Disposal instructions	Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused	Dispose of in accordance with local regulations.
products	
Contaminated packaging	Dispose of in same manner as unused product.

14. Transport information

DOT	Not regulated as dangerous goods.
ΙΑΤΑ	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according	Not applicable.
to Annex II of MARPOL 73/78	
and the IBC Code	

15. Regulatory information

0 /		
US federal regulations	This product is not hazardous according to OSHA 29CFR 191 All components are on the U.S. EPA TSCA Inventory List.	0.1200.
TSCA Section 12(b) Ex	port Notification (40 CFR 707, Subpt. D)	Not regulated.
OSHA Specifically Reg	gulated Substances (29 CFR 1910.1001-1050)	Not listed.
CERCLA Hazardous S	ubstance List (40 CFR 302.4)	Not listed.
Superfund Amendments a	nd Reauthorization Act of 1986 (SARA)	
Hazard categories		Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely I	nazardous substance	No
SARA 311/312 Hazard	ous chemical	No
SARA 313 (TRI reporti	ng)	Not regulated.
Other federal regulations		
Clean Air Act (CAA) S	ection 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)		Not regulated.
Safe Drinking Water Act (SDWA)		Not regulated.
Food and Drug Admin	istration (FDA)	Not regulated.
US state regulations	This product does not contain a chemical known to the State of	of California to cause cancer

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Massachusetts RTK - Substance List

Not regulated.

Pennsylvania RTK - Haz Rhode Island RTK	l Community Right-to-Know Act zardous Substances 55 - Carcinogens & Reproductive Toxicity (CRT)	Not regulated. Not regulated. Not regulated. Not listed.	
Country(s) or region	Inventory name	On inventory (yes	:/no)*
Australia	Australian Inventory of Chemical Substances (AICS)		es
Canada	Domestic Substances List (DSL)		es
Canada	Non-Domestic Substances List (NDSL)	No	0
China	Inventory of Existing Chemical Substances in China (IECSC)	Ye	es
Europe	EC Inventory	Ye	es
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No	0
Korea	Existing Chemicals List (ECL)	Ye	es
New Zealand	New Zealand Inventory	Ye	es
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CCS) Ye	es
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Ye	es

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Issue date	01/30/2016
Revision date	09/30/2016
Version	10
Further information	Not available.
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



1. Identification	
Product identifier	CircuLex S100A13 ELISA Kit
	HRP conjugated Detection Antibody
Other means of identification	
Product code	CY-8057
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Sup	plier / Distributor information
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number	+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax	+81-52-238-1440
E-mail	sds-support@mbl.co.jp
URL	http://www.mbl.co.jp/e/index.html
Contact person	SDS Support
Supplier	MBL International Corporation
	15A Constitution Way, Woburn, MA 01801, USA
Telephone number	+1-800-200-5459, option 3
Fax	+1-781-939-6963
E-mail	tech@mblintl.com
URL	http://www.mblintl.com/
Contact person	Technical Service

2. Hazard(s) identification

Not classified.
Not classified.
Not classified.
None.
None.
None.
Observe good industrial hygiene practices.
Wash hands after handling.
None.
None.
None.

3. Composition/Information on ingredients

Mixtures			
Chemical name		CAS number	%
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one		55965-84-9	< 0.1
Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.			

4. First-aid measures

Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact	Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if irritation develops or persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.
Ingestion	Drink plenty of water. Get medical attention if any discomfort occurs.
Most important symptoms/ effects, acute and delayed	Dry skin.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.
Fire-fighting equipment/ instructions	Move containers from fire area if you can do that without risk. Use water spray to cool unopened containers. Prevent entry to sewers and public waters.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid contact with eyes and prolonged skin contact. For personal protection, see Section 8 of the SDS.
Methods and materials for containment and cleaning up Environmental precautions	Absorb spillage with suitable absorbent material. Flush contaminated area thoroughly with water, following removal of the spillage. For waste disposal, see Section 13 of the SDS. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling	Avoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed.

8. Exposure controls/personal protection

Occupational exposure limits Biological limit values Appropriate engineering controls	No exposure limits noted for ingredient(s). No biological exposure limits noted for the ingredient(s). Ensure adequate ventilation is available, especially in confined areas.
Individual protection measure	s, such as personal protective equipment
Eye/face protection	Risk of splashes: Wear safety glasses with side shields.
Skin protection	
Hand protection	Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	Where excessive vapor, mist or dust may result, use NIOSH approved respiratory protection equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance		
Physical state	Liquid.	
Form	Liquid.	
Color	Pale blue.	
Odor	Odorless.	
Odor threshold	Not available.	
рН	Neutral.	
Melting point/freezing point	Not available.	
Initial boiling point and	Not available.	
boiling range		
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits		
Flammability limit	Not available.	
- lower (%)		
Flammability limit	Not available.	
- upper (%)		
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)	Soluble in water.	
Partition coefficient	Not available.	
(<i>n</i> -octanol/water)		
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	

10. Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous	Hazardous polymerization does not occur. Hazardous reactions do not occur.
reactions	
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition	None known.
products	

11. Toxicological information

Information on likely routes of exposure

Large quantities: May cause discomfort if swallowed.
Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Prolonged contact may cause dryness of the skin.
Direct contact with eyes may cause temporary irritation.
Dry skin.
effects
Large quantities: May cause discomfort if swallowed.
May cause mild skin irritation.
May cause eye irritation.
No data available.

Specific target organ toxicity	No data available.
 single exposure 	
Specific target organ toxicity	No data available.
 repeated exposure 	
Aspiration hazard	No data available.

12. Ecological information

Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	Expected to be highly mobile in soil.
Mobility in general	The product is water soluble and may spread in water systems.
Other adverse effects	No data available.

13. Disposal considerations

Disposal instructions Local disposal regulations Hazardous waste code Waste from residues / unused products	Dispose of in accordance with all applicable regulations. Do not discharge into drains, water Dispose of in accordance with local regulations. Not regulated. Dispose of in accordance with local regulations.	
Contaminated packaging	Dispose of in same manner as unused product.	
14. Transport information		
DOT	Not regulated as dangerous goods.	
ΙΑΤΑ	Not regulated as dangerous goods.	

IMDG Not regulated as dangerous goods. Transport in bulk according Not applicable. to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

.eguiater y interma		
US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.		0.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)		Not regulated.
	ulated Substances (29 CFR 1910.1001-1050)	Not listed.
	bstance List (40 CFR 302.4)	Not listed.
CERCEA Hazardous Su	DStance LISt (40 CFR 302.4)	Not listed.
Superfund Amendments and	d Reauthorization Act of 1986 (SARA)	
Hazard categories		Immediate Hazard - No
		Delayed Hazard - No
		Fire Hazard - No
		Pressure Hazard - No
		Reactivity Hazard - No
SARA 302 Extremely ha	zardous substance	No
SARA 311/312 Hazardous chemical		No
SARA 313 (TRI reporting)		Not regulated.
Other federal regulations		
Clean Air Act (CAA) See	ction 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)		Not regulated.
Safe Drinking Water Act (SDWA)		Not regulated.
Food and Drug Adminis	stration (FDA)	Not regulated.
US state regulations	This product does not contain a chemical known to the State or birth defects or other reproductive harm.	f California to cause cancer,
Massachusetts RTK - S	ubstance List	Not regulated.
New Jersey Worker and Community Right-to-Know Act		Not regulated.
		0

Pennsylvania RTK - Hazardous Substances	Not regulated.
Rhode Island RTK	Not regulated.
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)	Not listed.

ernational inventories		
Country(s) or region	Inventory name 0	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	EC Inventory	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PIC	CS) Yes
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	No
Rico		

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Issue date	01/30/2016
Revision date	09/30/2016
Version	10
Further information	Not available.
References	HSDB® - Hazardous Substances Data Bank
	Registry of Toxic Effects of Chemical Substances (RTECS)
	C&L Inventory database
Disclaimer	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



1. Identification	
Product identifier	CircuLex S100A13 ELISA Kit
	Substrate Reagent
Other means of identification	
Product code	CY-8057
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Sup	plier / Distributor information
Manufacturer and	Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia)	4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number	+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax	+81-52-238-1440
E-mail	sds-support@mbl.co.jp
URL	http://www.mbl.co.jp/e/index.html
Contact person	SDS Support
Supplier	MBL International Corporation
	15A Constitution Way, Woburn, MA 01801, USA
Telephone number	+1-800-200-5459, option 3
Fax	+1-781-939-6963
E-mail	tech@mblintl.com
URL	http://www.mblintl.com/
Contact person	Technical Service

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA hazard(s)	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	None.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise	None.
classified (HNOC)	

3. Composition/Information on ingredients

Mixtures

Chemical name	CAS number	%
Hydrogen peroxide	7722-84-1	< 0.1
3,3',5,5'-Tetramethylbenzidine	54827-17-7	<u><</u> 0.05

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact	Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if irritation develops or persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.
Ingestion	Drink plenty of water. Get medical attention if any discomfort occurs.
Most important symptoms/ effects, acute and delayed	May cause temporary irritation on skin or eye contact.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire-fighting equipment/ instructions	Move containers from fire area if you can do that without risk. Use water spray to cool unopened containers. Prevent entry to sewers and pubic waters.
6 Accidental release me	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up Environmental precautions	Absorb spillage with suitable absorbent material. After removal, flush contaminated area thoroughly with water. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling	Avoid contact with eyes and prolonged skin contact. Wear appropriate personal protective equipment (See Section 8). Wash hands after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value
Hydrogen peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3
		1 ppm

Components	Туре	Value	
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm	
US NIOSH Pooket Guide to Chemical Hazarda, Recommanded expective limit (REL)			

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

Components	Туре	Value	
Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3	
		1 ppm	

No biological exposure limits noted for the ingredient(s). No exposure standards allocated.

Biological limit values Exposure guidelines

Appropriate engineering controls	Provide adequate ventilation.
Individual protection measure	es, such as personal protective equipment
Eye/face protection	Risk of splashes: Wear safety glasses with side shields.
Skin protection	
Hand protection	Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	No special precautions. Seek advice from local supervisor.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Pale amber.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	explosive limits
Flammability limit	Not applicable.
- lower (%)	
Flammability limit	Not applicable.
- upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
(<i>n</i> -octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity Chemical stability	The product is non-reactive under normal conditions of use, storage and transport. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid Incompatible materials Hazardous decomposition products	Contact with incompatible materials. Elevated temperatures. Strong oxidizing agents. No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure Ingestion May cause

May cause discomfort if swallowed.

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May cause eye irritation on direct contact.
Symptoms related to the	May cause temporary irritation on skin or eye contact.
physical, chemical and	
toxicological characteristics	
Information on toxicological e	effects

Acute toxicity May cause discomfort if swallowed.

	Species	Test Desults	
	Species	Test Results	
722-84-1)			
LD50	Rat	311 mg/kg	
LD50	Rat	4,060 mg/kg	
Prolonged con	tact may cause drynes	s of the skin.	
May cause eye irritation on direct contact.			
No data availa	No data available.		
No data available.			
No data available.			
No data availa	ble.		
	LD50 Prolonged com May cause eye No data availa No data availa No data availa No data availa No data availa No data availa	LD50RatProlonged contact may cause drynesMay cause eye irritation on direct corNo data available.No data available.	LD50 Rat 4,060 mg/kg Prolonged contact may cause dryness of the skin. May cause eye irritation on direct contact. No data available. No data available.

12. Ecological information

Components		Species	Test Results
Hydrogen peroxide (CAS 7	722-84-1)		
Aquatic			
Algae	EC50	Nitzschia	0.85 mg/L, 72 hours
Persistence and degradability	The product is	biodegradable.	
Bioaccumulative potential	The product is	not bioaccumulating.	
Bioaccumulative potential	•	a not bioaccumulating. e highly mobile in soil.	
•	Expected to be	e highly mobile in soil.	spread in water systems.

13. Disposal considerations

Disposal instructions	Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in same manner as unused product.

14. Transport information

DOT	Not regulated as dangerous goods.
ΙΑΤΑ	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according	Not applicable.
to Annex II of MARPOL 73/78	
and the IBC Code	

15. Regulatory informa	tion		
US federal regulations	This product is not hazardous according to OSHA 29CFR 1910 All components are on the U.S. EPA TSCA Inventory List.	0.1200.	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)		Not regulated.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		Not listed.	
CERCLA Hazardous Substance List (40 CFR 302.4)		Not listed.	
Superfund Amendments and	d Reauthorization Act of 1986 (SARA)		
Hazard categories		Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazardous substance		No	
SARA 311/312 Hazardo	us chemical	No	
SARA 313 (TRI reportin	g)	Not regulated.	
Other federal regulations			
-	ction 112 Hazardous Air Pollutants (HAPs) List	Not regulated.	
	ction 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.	
Safe Drinking Water Act (SDWA)		Not regulated.	
US state regulations	This product does not contain a chemical known to the State o birth defects or other reproductive harm.	f California to cause	cance
Massachusetts RTK - Substance List		Not regulated.	
New Jersey Worker and Community Right-to-Know Act Pennsylvania RTK - Hazardous Substances		Not regulated.	
		Not regulated.	
Rhode Island RTK		Not regulated.	
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)		Not listed.	
nternational Inventories			
Country(s) or region	Inventory name	On inventory (ye	s/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Y	Yes
Canada	Domestic Substances List (DSL)	Y	Yes
Canada	Non-Domestic Substances List (NDSL)	1	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Y	Yes
Europe	EC Inventory	Y	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	1	No
Korea	Existing Chemicals List (ECL)	1	No
New Zealand	New Zealand Inventory	Y	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (F	PICCS)	No
United States & Puerto	Toxic Substances Control Act (TSCA) Inventory	Y	Yes
	· · · ·		

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Issue date	01/30/2016
Revision date	09/30/2016
Version	10
List of abbreviations	EC50: Effective Concentration, 50%.
	LD50: Lethal Dose, 50%.
Further information	Not available.
References	HSDB® - Hazardous Substances Data Bank
	Registry of Toxic Effects of Chemical Substances (RTECS)
	IARC Monographs. Overall Evaluation of Carcinogenicity

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.