

1. Identification		
Product identifier	CycLex Total p62 ELISA Kit	
	Microplate	
Other means of identification		
Product code	CY-7055	
Recommended use	Research use only.	
Recommended restrictions	None known.	
Manufacturer / Importer / Supp	blier / 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 thoroughly after handling.
Storage	None.
Disposal	None.
Hazard(s) not otherwise	None.
classified (HNOC)	

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 Appropriate engineering controls	No exposure limits noted for ingredient(s). No biological exposure limits noted for the ingredient(s). Provide adequate ventilation.	
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	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.
(<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 stable and non reactive under normal conditions of use, storage and 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	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 - 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 has 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.	5.
13. Disposal consideration	ons	
Disposal instructions	Dispose of in accordance with all applicable regulations. Do no courses or onto the ground.	ot 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	· · ·	
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 191	0.1200.
OSHA Specifically Regula	All components are on the U.S. EPA TSCA Inventory List. rt Notification (40 CFR 707, Subpt. D) ated Substances (29 CFR 1910.1001-1050) stance List (40 CFR 302.4)	Not regulated. Not listed. Not listed.
Superfund Amendments and F Hazard categories SARA 302 Extremely haza SARA 311/312 Hazardous		Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No
SARA 313 (TRI reporting)		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 istration (DEA). List 1 & 2 Exempt Chemical Mixtures (21	Not regulated. Not regulated. Not regulated. Not listed. Not regulated.
DEA Exempt Chemical Mi Food and Drug Administr		Not regulated. 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 (PI	CCS) Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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).

16. Other information

Issue date	05/29/2017
Revision date	_
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.



Product identifierCycLex Total p62 ELISA Kit 10X Wash BufferOther means of identification10X Wash BufferProduct codeCY-7055Recormended useResearch use only.Recormended restrictionsNone known.Manufacturer / Importer / Supplier (Asia)Medical & Biological Laboratories (MBL) Co., Ltd.Supplier (Asia)4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, JapanFax+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)Fax+81-52-238-1440E-mailsds-support@mbl.co.jpURLhttp://www.mbl.co.jp/e/index.htmlContact personSDS SupportTelephone number+1-800-200-5459, option 3Fax+1-781-939-6963E-mailtech@mblintl.com/URLhttp://www.mblintl.com/IVRLhttp://www.mblintl.com/Contact personTechnical Service	1. Identification	
Other means of identificationProduct codeCY-7055Recommended useResearch use only.Recommended restrictionsNone known.Manufacturer / Importer / Supplier / Distributor informationManufacturer andMedical & Biological Laboratories (MBL) Co., Ltd.Supplier (Asia)4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, JapanTelephone number+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)Fax+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)Fax-81-s2-238-1440E-mailsds-support@mbl.co.jpURLhttp://www.mbl.co.jp/e/index.htmlContact personSDS SupportSupplierMBL International Corporation15A Constitution Way, Woburn, MA 01801, USATelephone number+1-800-200-5459, option 3Fax+1-781-939-6963E-mailtech@mblintl.comURLhttp://www.mblintl.com/	Product identifier	CycLex Total p62 ELISA Kit
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	E-mail	tech@mblintl.com
Contact person Technical Service	URL	http://www.mblintl.com/
	Contact person	Technical Service

2. Hazard(s) identification

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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 thoroughly after handling.
Storage	None.
Disposal	None.
Hazard(s) not otherwise	None.
classified (HNOC)	

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

1 * * 1
Liquid.
Liquid.
Colorless.
Odorless.
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.
Not applicable.
explosive limits
Not available.
Not available.
Not available.
Not available.
Not available.
Soluble in water.
Not available.
Not available.
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	None known.
reactions	
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	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.	

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

components are not classified as environmentally hazardous. However, this clude the possibility that large or frequent spills have a harmful or damaging environment. ilable.
ilable
ilable.
ilable.
is water soluble and may spread in water systems.
ilable.
t

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

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.
OSHA Specifically Regula	ort Notification (40 CFR 707, Subpt. D) ated Substances (29 CFR 1910.1001-1050) stance List (40 CFR 302.4)	Not regulated. Not listed. 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	ardous substance	No
SARA 311/312 Hazardous		No
SARA 313 (TRI reporting)		Not regulated.
Other federal regulations		
Clean Air Act (CAA) Sect	ion 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.
-	nistration (DEA). List 2, Essential Chemicals (21 CFR (2) and Chemical Code Number	Not listed.
Drug Enforcement Admir CFR 1310.12(c))	nistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21	Not regulated.

DEA Exempt Chemical Mixtures Code Number Food and Drug Administration (FDA)		Not regulated. 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 caus	e 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 (y	/es/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 Rico	Toxic Substances Control Act (TSCA) Inventory		Yes
*A "Yes" indicates this pro	duct complies with the inventory requirements administered by the	e aovernina count	trv(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).

16. Other information	
Issue date	05/29/2017
Revision date	-
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 CycLex Total p62 ELISA Kit 50X Phosphatase Inhibitor Other means of identification CY-7055 Product code **Recommended use** Research use only. **Recommended restrictions** None known. Manufacturer / Importer / Supplier / Distributor information Medical & Biological Laboratories (MBL) Co., Ltd. Manufacturer and 4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan Supplier (Asia) **Telephone number** +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST) +81-52-238-1440 Fax sds-support@mbl.co.jp E-mail http://www.mbl.co.jp/e/index.html URL **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 tech@mblintl.com E-mail URL http://www.mblintl.com/ **Technical Service Contact person**

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 thoroughly after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None.

3. Composition/Information on ingredients

Mixtures		
Chemical name	CAS number	%
Sodium fluoride	7681-49-4	< 1
Sodium orthovanadate	13721-39-6	< 3
Composition comments	All concentrations are in percent by we are in percent by volume.	eight unless ingredient is a gas. Gas concentrations

4. First aid measures

Inhalation

Move to fresh air. Get medical attention if discomfort develops or persists.

Skin contact	Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation develops or persists.
Ingestion	Drink plenty of water. Seek medical advice.
Most important symptoms/ effects, acute and delayed	Irritation of eyes and mucous membranes. Mild skin irritation.
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	Water. Foam. Dry powder. Carbon dioxide (CO2). None known.
Specific hazards arising from the chemical	Fire or high temperatures create: Carbon oxides.
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

Ensure adequate ventilation. Avoid inhalation of mist and contact with skin and eyes. For Personal precautions, personal protection, see Section 8 of the SDS. protective equipment and emergency procedures Dike far ahead of liquid spill for later disposal. Small Spills: Absorb spillage with suitable Methods and materials for absorbent material. Clean contaminated surface thoroughly. After removal, flush containment and cleaning up contaminated area thoroughly with water. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. **Environmental precautions** Prevent further leakage or spillage if safe to do so. 7. Handling and storage Precautions for safe handling Provide adequate ventilation. Use work methods which minimize production of vapors and mists. Avoid inhalation of mist and contact with skin and eyes. Wash hands after handling. Observe good industrial hygiene practices. Keep container tightly closed. Store away from incompatible materials. Conditions for safe storage, including any

incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US, OSHA Table 7-1 Limits for Air	Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Sodium fluoride (CAS 7681-49-4)	TWA	2.5 mg/m3	Dust (as Fluorides)
US ACCIU Threshold Limit Values			
US. ACGIH Threshold Limit Values Components	Туре	Value	Form

Biological limit values

Sodium fluoride (CAS 7681-49-4) Fluorides 3 mg/L Urin (End of shift)	Components	Parameters	Value	Biological specimen
	Sodium fluoride (CAS 7681-49-4)	Fluorides	3 mg/L	Urin (End of shift)

Appropriate engineering Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection	Wear safety glasses.
Hand protection	Wear protective gloves. Nitrile gloves are recommended, but 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. Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
Respiratory protection	In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment with combination filter (gas filter/dust filter). Seek advice from local supervisor.
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	Powder	
Form	Lyophilized	
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 reactions	Hazardous reactions do not occur.
Conditions to avoid	Strong heating. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Ingestion may cause irritation and malaise.

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	May cause skin irritation. Causes skin irritation.
Eye contact	May cause eye irritation on direct contact. Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes and mucous membranes. Mild skin irritation.
Information on toxicological e	effects

Acute toxicity Large quantities. May cause disconnent in swallowed.	Acute toxicity	Large quantities: May cause discomfort if swallowed.
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Components		Species	Test Results	
Sodium fluoride (CAS 7681	1-49-4)			
Acute				
Oral	LD50	Rat	31 mg/kg	
Sodium orthovanadate (CA	S 13721-39-6)			
Acute				
Oral	LD50	Rat	330 mg/kg	
Skin corrosion/irritation	May cause ski	n irritation.		
Serious eye damage/eye rritation	May cause eye	e irritation on direct co	ntact.	
Respiratory sensitization	Based on avai	lable data, the classific	cation criteria are not met.	
Skin sensitization	Based on avai	lable data, the classific	cation criteria are not met.	
Germ cell mutagenicity	No data availa	ble.		
Carcinogenicity	IARC not listed	1.		
Reproductive toxicity	Not classified.			
Specific target organ toxicity single exposure	Knowledge ab	out health hazard is in	complete.	
Specific target organ toxicity repeated exposure	Knowledge ab	out health hazard is in	complete.	
Aspiration hazard	No data availa	ble.		

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.

	Species	Test Results
31-49-4)		
LC50	Water flea (Daphnia magna)	98 mg/L, 48 hours
AS 13721-39-6)		
LC50	Oncorhynchus tshawytscha	16.5 mg/L, 96 hours
ty No data available.		
No data available.		
No data available.		
The product is wate	er soluble and may spread in water systems	S.
No data available.	· · · · · · · · · · · · · · · · · · ·	
	LC50 AS 13721-39-6) LC50 ty No data available. No data available. No data available. The product is wate	31-49-4) LC50 Water flea (Daphnia magna) CAS 13721-39-6) LC50 Oncorhynchus tshawytscha ty No data available. No data available. No data available. No data available. The product is water soluble and may 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	Dispose of in accordance with local regulations.
products	
Contaminated packaging	Dispose of in same manner as unused product.

14. Transport information	on			
DOT	Not regulated as a dangerous good.			
ΙΑΤΑ	Not regulated as a dangerous good.			
IMDG	Not regulated as a dangerous good.			
Transport in bulk according	Not applicable.			
to Annex II of MARPOL 73/78				
and the IBC Code				
15. Regulatory informat	ion			
US federal regulations	This product is not hazardous accordin		.1200.	
	All components are on the U.S. EPA T	-		
	ort Notification (40 CFR 707, Subpt. D)		Not regulated.	
	lated Substances (29 CFR 1910.1001-1	050)	Not regulated.	
CERCLA Hazardous Sub	ostance List (40 CFR 302.4)		Not listed.	
-	Reauthorization Act of 1986 (SARA)			
Hazard categories			Immediate Haz	
			Delayed Hazar Fire Hazard - N	
			Pressure Haza	
			Reactivity Haza	
SARA 302 Extremely ha	zardous substance		No	
SARA 311/312 Hazardou		Sodium fluoride (CA		
GARA ST I/STZ Hazardou		Sodium orthovanada	,	39-6)
Other federal regulations				
	tion 112 Hazardous Air Pollutants (HA	Ps) List	Not listed.	
Safe Drinking Water Act (SDWA)			Fluoride is liste	d
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR		micals (21 CFR	Not listed.	
1310.02(b) and 1310.04(f)(2) and Chemical Code Number				
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 Not regulated. CFR 1310.12(c))				
	lixturos Codo Numbor		Not regulated.	
DEA Exempt Chemical Mixtures Code Number Food and Drug Administration (FDA)		Not regulated.		
-			Ū	
US state regulations	This product does not contain a chemic birth defects or other reproductive harr		California to cau	ise cancer,
Massachusetts RTK - St	-		Sodium fluorid	e (CAS 7681-
			49-4)	,
New Jersey Worker and	Community Right-to-Know Act		Sodium fluorid 49-4)	e (CAS 7681-
Pennsylvania RTK - Haz	ardous Substances		Sodium fluorid	e (CAS 7681-
· · · · · · · · · · · · · · · · · · ·			49-4)	- (
California Proposition 6	5 - Carcinogens & Reproductive Toxici	ty (CRT)	Not listed.	
International Inventories				
Country(s) or region	Inventory name		On inventory	(yes/no)*
Australia	Australian Inventory of Chemical Subs	tances (AICS)		Yes
Canada	Domestic Substances List (DSL)			Yes
Canada	Non-Domestic Substances List (NDSL			No
China	Inventory of Existing Chemical Substar	nces in China (IECSC)		Yes
Europe	EC Inventory			Yes
Japan	Inventory of Existing and New Chemica	al Substances (ENCS)		Yes
Korea	Existing Chemicals List (ECL)			Yes
New Zealand	New Zealand Inventory			Yes
Philippines	Philippine Inventory of Chemicals and		ICCS)	No
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).

16. Other information	
Issue date	05/29/2017
Revision date	_
Version	10
Further information	Not available.
References	IUCLID RTECS AQUIRE 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	CycLex Total p62 ELISA Kit
	1st Lysis Buffer
Other means of identification	
Product code	CY-7055
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	Hazardous to the aquatic environment, acute hazard Category 3
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Harmful to aquatic life.
Precautionary statement	
Prevention	Avoid release to the environment.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None.
Supplemental information	None.

3. Composition/Information on ingredients

Mixtures

witktures	
Chemical name	CAS number %
Sodium dodecyl sulphate	151-21-3 <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. Wash contact areas with soap and water. Get medical attention if irritation develops and
Eye contact	persists. Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.
Ingestion Most important symptoms/	Rinse mouth thoroughly. Get medical attention if any discomfort continues. Dry skin.
effects, acute and delayed Indication of immediate medical attention and special	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
treatment needed 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. Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Irritating and toxic gases or fumes may be released during a fire. Carbon oxides. Sulfur oxides.
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	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted. The product is not flammable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid breathing mist. Avoid contact with eyes and prolonged skin contact.
Methods and materials for containment and cleaning up	Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. After removal flush contaminated area thoroughly with water. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste for proper disposal.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not allow to enter drains, sewers or watercourses.

7. Handling and storage

Precautions for safe handling	Use with adequate ventilation. Do not breathe mist or vapor. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store away from incompatible materials (see Section 10 of the SDS). Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

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. Observe Occupational Exposure Limits and minimize the risk
controls	of inhalation of vapors. Provide easy access to water supply and eye wash facilities.
Individual protection measures, such as personal protective equipment	

Eye/face protection Skin protection	Wear approved safety glasses or goggles.
Hand protection	Wear protective gloves. Nitrile or neoprene gloves are recommended.
Other	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practices. 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 ex	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.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

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	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	May cause dryness of the skin.
Eye contact	May cause temporary eye irritation.

Symptoms related to the	Dry skin.			
physical, chemical and				
toxicological characteristics				
Information on toxicological e	effects			
Acute toxicity	Large quantities: Ma	ay cause discom	fort if sv	vallowed.
Components		Species		Test Results
Sodium dodecyl sulphate (CAS 151-21-3)			
Acute				
Oral	LD50	Rat	1	,288 mg/kg
Dermal	LD50	Rabbit		580 mg/kg
Skin corrosion/irritation	May cause mild skir	n irritation.		
Serious eye damage/eye	May cause eye irrita	ation.		
irritation				
Respiratory sensitization	Not a respiratory se	Not a respiratory sensitizer.		
Skin sensitization	Not a skin sensitise	r.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. IARC not listed.			
IARC Monographs. Overa	all Evaluation of Car	cinogenicity		Not listed.
NTP Report on Carcinoge	ens			Not listed.
OSHA Specifically Regula	ated Substances (29	OCFR 1910.1001	-1050)	Not regulated.
Reproductive toxicity	This product is not e	expected to caus	e repro	ductive or developmental effects.
Specific target organ toxicity	Not classified.			
- single exposure				
Specific target organ toxicity	Not classified.			
- repeated exposure				
Aspiration hazard	Not an aspiration ha	azard.		
Chronic effects	May cause damage may be harmful.	to organs throug	gh prolo	nged or repeated exposure. Prolonged inhalation

12. Ecological information

Components		Species	Test Results
Sodium dodecyl sulphate	e (CAS 151-21-3)		
Aquatic			
Crustacea	EC50	Acartia tonsa	0.12 mg/L, 96 hours
	LC50	Water flea (<i>Daphnia magna</i>)	8.4 - 11 mg/L, 48 hours
Fish	LC50	Carp, hawk fish (Cirrhinus mrigala)	1.36 mg/L, 96 hours

Persistence and degradability No data available.

Bioaccumulative potential

Partition coefficient n	-octanol / water (log Kow)	
Sodium dodecyl sulpha	te (CAS 151-21-3)	1.6
Mobility in soil	This product is water soluble	and may disperse 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	Dispose 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 informatio	n		
DOT	Not regulated as dangerous goods.		
АТА	Not regulated as dangerous goods.		
MDG	Not regulated as dangerous goods.		
Fransport in bulk according	Not applicable.		
o Annex II of MARPOL 73/78			
and the IBC Code			
15. Regulatory informati	on		
JS federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory Lis		
TSCA Section 12(b) Expo	ort Notification (40 CFR 707, Subpt. D)	Not regulated.	
OSHA Specifically Regula	ated Substances (29 CFR 1910.1001-1050)	Not regulated.	
CERCLA Hazardous Sub	stance 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	ardous substance	Not listed.	
SARA 311/312 Hazardous		No.	
SARA 313 (TRI reporting)		Not regulated.	
Other federal regulations			
_	ion 112 Hazardous Air Pollutants (HAPs) List	Not regulated.	
	ion 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.	
Safe Drinking Water Act		Not regulated.	
US state regulations			
Massachusetts RTK - Su	bstance List	Not regulated.	
New Jersey Worker and (Community Right-to-Know Act	Not regulated.	
Pennsylvania RTK - Haza	rdous Substances Right-to-Know Law	Not regulated.	
Rhode Island RTK		Not regulated.	
California Proposition 65		Not regulated.	
nternational 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 Now Zooland	Existing Chemicals List (ECL)	Yes	
New Zealand	New Zealand Inventory Bhilipping Inventory of Chamicals and Chamical Substances (I	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (I Toxic Substances Control Act (TSCA) Inventory		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	
	duct complies with the inventory requirements administered by th	a doverning country(a)	
	or more components of the product are not listed or exempt from		

16. Other information

Issue date	05/29/2017
Revision date	_
Version	10

List of abbreviations	EC50: Effective Concentration, 50% LC50: Lethal 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.



1. Identification Product identifier CycLex Total p62 ELISA Kit 2nd Lysis Buffer Other means of identification Product code CY-7055 **Recommended use** Research use only. **Recommended restrictions** None known. Manufacturer / Importer / Supplier / Distributor information Medical & Biological Laboratories (MBL) Co., Ltd. Manufacturer and 4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan Supplier (Asia) **Telephone number** +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST) +81-52-238-1440 Fax 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 +1-800-200-5459, option 3 **Telephone number** Fax +1-781-939-6963 tech@mblintl.com E-mail URL http://www.mblintl.com/ **Technical Service Contact person**

2. Hazard(s) identification

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

are in percent by volume.

3. Composition/Information on ingredients

Mixtures	
Chemical name	CAS number %
Triton X-100	9002-93-1 < 1
Composition comments	All concentrations are in percent by weight 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/ 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 General fire hazards	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. The product is non-combustible.

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. 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,	Keep container tightly closed.
including any	
incompatibilities	

8. Exposure controls/personal protection

Occupational exposure limits Biological limit values Appropriate engineering controls Individual protection measure	No exposure limits noted for ingredient(s). No biological exposure limits noted for the ingredient(s). Ventilation is not normally required.	
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	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	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.
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

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			
OSHA Specifically Regula	ated 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	No data available.
 repeated exposure 	
Aspiration hazard	Not classified.

12. Ecological information	on
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	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	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

JS federal regulationsThis 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.
OSHA Specifically Regul	lated Substances (29 CFR 1910.1001-1050)	Not listed.
CERCLA Hazardous Sub	ostance 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	zardous substance	No
SARA 311/312 Hazardous chemical		No
SARA 313 (TRI reporting)		Not regulated.
Other federal regulations		
Clean Air Act (CAA) Section 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.
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 cancer,
Massachusetts RTK - Su	ibstance List	Not regulated.
New Jersey Worker and Community Right-to-Know Act		Not regulated.

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

ternational Inventories		
Country(s) or region	Inventory name C	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	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
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 Rico	Toxic Substances Control Act (TSCA) Inventory	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).

16. Other information

Issue date Revision date	05/29/2017
Version	10
References	RTECS AQUIRE 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	CycLex Total p62 ELISA Kit
	p62 Standard
Other means of identification	
Product code	CY-7055
Recommended use	Research use only.
Recommended restrictions	None known.
Manufacturer / Importer / Supp	blier / 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 thoroughly after handling.
Storage	None.
Disposal	None.
Hazard(s) not otherwise	None.
classified (HNOC)	

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	
containment and cleaning up Environmental precautions	flush contaminated area thoroughly with water. Never return spills to original containers for re-use. Prevent further leakage or spillage if safe to do so.

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 Appropriate engineering controls	No exposure limits noted for ingredient(s). No biological exposure limits noted for the ingredient(s). 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	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

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 exposure

la section	Large questition. May acuse disconfect if swellowed
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	No data available.	
- repeated exposure		
Aspiration hazard	No data available.	
12. Ecological information		
Ecotoxicity	The product components are not classified as environmentally does not exclude the possibility that large or frequent spills have 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	i.
Other adverse effects	No data available.	
13. Disposal considerati	ons	
Disposal instructions	Dispose of in accordance with all applicable regulations. Do no courses or onto the ground.	ot discharge into drains, water
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 informatio	n	
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 informati	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.	0.1200.
	ort Notification (40 CFR 707, Subpt. D)	Not regulated.
	ated Substances (29 CFR 1910.1001-1050)	
CERCLA Hazardous Sub		Not listed.
	stance List (40 CFR 302.4)	Not listed. Not listed.
Superfund Amendments and I	stance List (40 CFR 302.4) Reauthorization Act of 1986 (SARA)	Not listed.
		Not listed. Immediate Hazard - No
Superfund Amendments and I		Not listed. Immediate Hazard - No Delayed Hazard - No
Superfund Amendments and I		Not listed. Immediate Hazard - No
Superfund Amendments and I		Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No
Superfund Amendments and I	Reauthorization Act of 1986 (SARA)	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No
Superfund Amendments and I Hazard categories	Reauthorization Act of 1986 (SARA) ardous substance	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Superfund Amendments and I Hazard categories SARA 302 Extremely haza	Reauthorization Act of 1986 (SARA) ardous substance s chemical	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No
Superfund Amendments and I Hazard categories SARA 302 Extremely haza SARA 311/312 Hazardous SARA 313 (TRI reporting) Other federal regulations	Reauthorization Act of 1986 (SARA) ardous substance s chemical)	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No No No Not regulated.
Superfund Amendments and I Hazard categories SARA 302 Extremely haza SARA 311/312 Hazardous SARA 313 (TRI reporting) Other federal regulations Clean Air Act (CAA) Secti	Reauthorization Act of 1986 (SARA) ardous substance s chemical) ion 112 Hazardous Air Pollutants (HAPs) List	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No No No Not regulated.
Superfund Amendments and I Hazard categories SARA 302 Extremely haza SARA 311/312 Hazardous SARA 313 (TRI reporting) Other federal regulations Clean Air Act (CAA) Secti Clean Air Act (CAA) Secti	Reauthorization Act of 1986 (SARA) ardous substance s chemical) ion 112 Hazardous Air Pollutants (HAPs) List ion 112(r) Accidental Release Prevention (40 CFR 68.130)	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No No No Not regulated. Not regulated.
Superfund Amendments and I Hazard categories SARA 302 Extremely haza SARA 311/312 Hazardous SARA 313 (TRI reporting) Other federal regulations Clean Air Act (CAA) Secti Clean Air Act (CAA) Secti Safe Drinking Water Act (Drug Enforcement Admin	Reauthorization Act of 1986 (SARA) ardous substance s chemical) ion 112 Hazardous Air Pollutants (HAPs) List ion 112(r) Accidental Release Prevention (40 CFR 68.130) (SDWA) nistration (DEA). List 2, Essential Chemicals (21 CFR	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No No No Not regulated.
Superfund Amendments and I Hazard categories SARA 302 Extremely haza SARA 311/312 Hazardous SARA 313 (TRI reporting) Other federal regulations Clean Air Act (CAA) Secti Clean Air Act (CAA) Secti Safe Drinking Water Act (Drug Enforcement Admin 1310.02(b) and 1310.04(f)	Reauthorization Act of 1986 (SARA) ardous substance s chemical) ion 112 Hazardous Air Pollutants (HAPs) List ion 112(r) Accidental Release Prevention (40 CFR 68.130) (SDWA)	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No No No Not regulated. Not regulated. Not regulated. Not regulated.
Superfund Amendments and I Hazard categories SARA 302 Extremely haza SARA 311/312 Hazardous SARA 313 (TRI reporting) Other federal regulations Clean Air Act (CAA) Secti 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))	Reauthorization Act of 1986 (SARA) ardous substance s chemical) ion 112 Hazardous Air Pollutants (HAPs) List ion 112(r) Accidental Release Prevention (40 CFR 68.130) (SDWA) nistration (DEA). List 2, Essential Chemicals (21 CFR)(2) and Chemical Code Number nistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No No No Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated.
Superfund Amendments and I Hazard categories SARA 302 Extremely haza SARA 311/312 Hazardous SARA 313 (TRI reporting) Other federal regulations Clean Air Act (CAA) Secti Clean Air Act (CAA) Secti Safe Drinking Water Act (Drug Enforcement Admin 1310.02(b) and 1310.04(f) Drug Enforcement Admin	Reauthorization Act of 1986 (SARA) ardous substance s chemical) ion 112 Hazardous Air Pollutants (HAPs) List ion 112(r) Accidental Release Prevention (40 CFR 68.130) (SDWA) histration (DEA). List 2, Essential Chemicals (21 CFR (2) and Chemical Code Number histration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 lixtures Code Number	Not listed. Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No No No Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated.

S state regulations This product does not contain a chemical known to the State of California to cau		California to cause canc
	birth defects or other reproductive harm.	
Massachusetts RTK - Su	ibstance List	Not regulated.
New Jersey Worker and	Community Right-to-Know Act	Not regulated.
		Not regulated.
		Not regulated.
California Proposition 6	5 - 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 Rico	Toxic Substances Control Act (TSCA) Inventory	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).

16. Other information

Issue date	05/29/2017
Revision date	_
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 CycLex Total p62 ELISA Kit **Dilution Buffer** Other means of identification CY-7055 Product code **Recommended use** Research use only. **Recommended restrictions** None known. Manufacturer / Importer / Supplier / Distributor information Medical & Biological Laboratories (MBL) Co., Ltd. Manufacturer and 4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan Supplier (Asia) **Telephone number** +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST) +81-52-238-1440 Fax 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 tech@mblintl.com E-mail URL http://www.mblintl.com/

Technical Service

2. Hazard(s) identification

Contact person

Physical hazards Health hazards OSHA hazard(s)	Not classified. Not classified. 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 classified (HNOC)	None.

3. Composition/Information on ingredients

Mixtures

Chemical name		CAS number	%
Triton X-100		9002-93-1	≦ 2.0
reaction mass of: 5-chlo and 2-methyl-4-isothiazo	ro-2-methyl-4-isothiazolin-3-one Jlin-3-one	55965-84-9	< 0.1
All concentrations are in percent by weight unless ingredient is a gas. Gas cor are in percent by volume.		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/ 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 General fire hazards	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. The product is non-combustible.

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. 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,	Keep container tightly closed.
including any	
incompatibilities	

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). Ventilation is not normally required.
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	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 General hygiene considerations	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.
pН	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.
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	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	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			
OSHA Specifically Regu	lated 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	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	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	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 IATA	Not regulated as dangerous goods. Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
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 All components are on the U.S. EPA TSCA Inventory List.	0.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) CERCLA Hazardous Substance List (40 CFR 302.4)		Not regulated. Not listed. Not listed.
Superfund Amendments and Hazard categories	Reauthorization Act of 1986 (SARA)	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely haz	ardous substance	No
SARA 311/312 Hazardous chemical		No
SARA 313 (TRI reporting)		Not regulated.
Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Safe Drinking Water Act (SDWA)		Not regulated. Not regulated. Not regulated.
US state regulations	This product does not contain a chemical known to the State c birth defects or other reproductive harm.	of California to cause cancer,

Massachusetts RTK - Substance List

Not regulated.

Pennsylvania RTK - Haza Rhode Island RTK	Community Right-to-Know Act ardous Substances 5 - Carcinogens & Reproductive Toxicity (CRT)	Not regulated. Not regulated. Not regulated. Not listed.	
International Inventories			
Country(s) or region	Inventory name	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)		No
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 Rico	Toxic Substances Control Act (TSCA) Inventory		No

*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).

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SAFETY DATA SHEET

1. Identification Product identifier CycLex Total p62 ELISA Kit HRP conjugated Detection Antibody Other means of identification Product code CY-7055 Recommended use Research use only. Recommended restrictions None known.

Manufacturer / Importer / Supplier / 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	Not classified. Not classified.
	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	None.
Disposal	None.
Hazard(s) not otherwise	None.
classified (HNOC)	

3. Composition/Information on ingredients

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 are in percent by	weight 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/ 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

6. Accidental release me	
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.
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.
Specific hazards arising from the chemical	
Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.
Suitable avtinguishing modia	Les fire outinguishing modio approprieto for ourrounding motoriale

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	es, 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.
(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 reactions	Hazardous polymerization does not occur. Hazardous reactions do not occur.
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	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.
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	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

	Dispose of in accordance with all applicable regulations. Do not discharge into drains, water Dispose of in accordance with local regulations. Not regulated. d 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.

15. Regulatory information

to Annex II of MARPOL 73/78

and the IBC Code

i ei i teganater y initerina		
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.
	ulated Substances (29 CFR 1910.1001-1050)	Not listed.
	bstance 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 ha	azardous substance	No
SARA 311/312 Hazardo		No
SARA 313 (TRI reportin	g)	Not regulated.
Other federal regulations		
Clean Air Act (CAA) Se	ction 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Se	ction 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Ac	t (SDWA)	Not regulated.
Food and Drug Admini	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	Substance List	Not regulated.
New Jersey Worker and	Community Right-to-Know Act	Not regulated.

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

ternational inventories		
Country(s) or region	Inventory name C	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 Rico	Toxic Substances Control Act (TSCA) Inventory	No

*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	05/29/2017
Revision date	_
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.



SAFETY DATA SHEET

1. Identification Product identifier CycLex Total p62 ELISA Kit Substrate Reagent Other means of identification Product code CY-7055 **Recommended use** Research use only. **Recommended restrictions** None known. Manufacturer / Importer / Supplier / Distributor information Medical & Biological Laboratories (MBL) Co., Ltd. Manufacturer and 4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan Supplier (Asia) **Telephone number** +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST) +81-52-238-1440 Fax 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 tech@mblintl.com E-mail URL http://www.mblintl.com/ **Technical Service Contact person**

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
mposition comments All	ncentrations are in percent by weig	ht unless ingredient is a gas. Gas concentrations

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

known.
known.
ontained breathing apparatus and full protective clothing should be worn when fighting cal fires. Selection of respiratory protection for firefighting: follow the general fire utions indicated in the workplace.
containers from fire area if you can do that without risk. Use water spray to cool ned containers. Prevent entry to sewers and pubic waters.

Personal precautions,
protective equipment and
emergency proceduresAvoid 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 precautionsAbsorb spillage with suitable absorbent material. After removal, flush contaminated area
thoroughly with water.Prevent further leakage or spillage if safe to do so.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

US. OSHA Table 2-1 Limits for Air Contaminants (29 CFR 1910.1000)				
Components	Туре	Value		
Hydrogen peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3		

US. ACGIH Threshold Limit Values			
Components	Туре	Value	
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm	

Components		Туре	Value	
Hydrogen per	oxide (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 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 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 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.	
(n-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 physical, chemical and toxicological characteristics	May cause temporary irritation on skin or eye contact.
Information on toxicological	effects

Acute toxicity May cause discomfort if swallowed.

Acute toxicity	May budge ale	connort il swallowed.		
Components		Species	Test Results	
Hydrogen peroxide (CAS 7	722-84-1)			
Acute				
Oral	LD50	Rat	311 mg/kg	
Dermal	LD50	Rat	4,060 mg/kg	
Skin corrosion/irritation Prolonged contact may cause dryness of the skin.				
Serious eye damage/eye	May cause ey	e irritation on direct cor	ntact.	
irritation				
Respiratory sensitization No data available.				
Skin sensitization	No data availa	ıble.		
Germ cell mutagenicity	erm cell mutagenicity No data available.			
Carcinogenicity	No data available.			
Reproductive toxicity	No data available.			
Specific target organ toxicity	No data availa	ble.		
- single exposure				
Specific target organ toxicity	No data availa	ıble.		
- repeated exposure				
Aspiration hazard No data available.				
-				

12. Ecological information

Components		Species	Test Results	
Hydrogen peroxide (CA	S 7722-84-1)			
Aquatic				
Algae	EC50	Nitzschia	0.85 mg/L, 72 hours	
Persistence and degradab	•	biodegradable.		
Bioaccumulative potential				
Aobility in soil	1	Expected to be highly mobile in soil.		
Aobility in general	The product is	The product is water soluble and may spread in water systems.		
Other adverse effects	The environm	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	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	

JS federal regulations	This product is not hazardous according to	0 OSHA 29CFR 1910	1200
oo lederal regulations	All components are on the U.S. EPA TSC		.1200.
TSCA Section 12(b) Ex	port Notification (40 CFR 707, Subpt. D)	,	Not regulated.
	ulated Substances (29 CFR 1910.1001-1050	D)	Not listed.
	ibstance 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 ha	azardous substance		No
SARA 311/312 Hazardo	us chemical		No
SARA 313 (TRI reportin	g)		Not regulated.
Other federal regulations			
Clean Air Act (CAA) Se	ction 112 Hazardous Air Pollutants (HAPs)	List	Not regulated.
Clean Air Act (CAA) Se	ction 112(r) Accidental Release Prevention	(40 CFR 68.130)	Not regulated.
Safe Drinking Water Ac	t (SDWA)		Not regulated.
US state regulations	This product does not contain a chemical birth defects or other reproductive harm.	known to the State of	California to cause cance
Massachusetts RTK - S	Substance List		Not regulated.
New Jersey Worker and	d Community Right-to-Know Act		Not regulated.
Pennsylvania RTK - Ha	zardous Substances		Not regulated.
Rhode Island RTK			Not regulated.
California Proposition ((CRT)	65 - Carcinogens & Reproductive Toxicity	3,3',5,5'-Tetramethy dyes)	Ibenzidine (Benzidine-bas
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substan	ces (AICS)	Yes
Canada	Domestic Substances List (DSL)		Yes
Canada	Non-Domestic Substances List (NDSL)		No
China	Inventory of Existing Chemical Substance	s in China (IECSC)	Yes
Europe	EC Inventory		Yes
Japan	Inventory of Existing and New Chemical S	Substances (ENCS)	No
Korea New Zeoland	Existing Chemicals List (ECL)		No
New Zealand	New Zealand Inventory	omiaal Substances (D	Yes
Philippines	Philippine Inventory of Chemicals and Che		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inve	entory	Yes
0.0.0			

*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).

TECS)

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.



SAFETY DATA SHEET

1. Identification CycLex Total p62 ELISA Kit **Product identifier** Stop Solution Other means of identification CY-7055 Product code **Recommended use** Research use only. **Recommended restrictions** None known. Manufacturer / Importer / Supplier / Distributor information Medical & Biological Laboratories (MBL) Co., Ltd. Manufacturer and Supplier (Asia) 4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST) **Telephone number** +81-52-238-1440 Fax sds-support@mbl.co.jp E-mail http://www.mbl.co.jp/e/index.html URL **Contact person** SDS Support MBL International Corporation Supplier 15A Constitution Way, Woburn, MA 01801, USA +1-800-200-5459, option 3 **Telephone number** Fax +1-781-939-6963 tech@mblintl.com E-mail http://www.mblintl.com/ URL **Technical Service Contact person**

2. Hazard(s) identification

Physical hazards Health hazards	Not classified. Skin corrosion/irritation Serious eye damage/eye irritation	Category 1 Category 1	
OSHA hazard(s)	Not classified.		
Label elements			
Hazard symbol			
Signal word	Danger		
Hazard statement	Causes severe skin burns and eye damag	e.	
Precautionary statement			
Prevention	Do not breathe dust or mist. Wear protection protection. Wash thoroughly after handling	ve 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.	ce with local/regional/national/international	
Hazard(s) not otherwise classified (HNOC)	None.		

3. Composition/Information on ingredients Mixtures

	CAS number %
Sulfuric acid	7664-93-9 < 10
-	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
4. First-aid measures	
	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.
	Take off immediately all contaminated clothing. Flush skin thoroughly with water. Get medical attention immediately. Chemical burns must be treated by a physician.
-	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.
	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.
	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	
	Use fire-extinguishing media appropriate for surrounding materials. None known.
	By heating and fire, harmful vapors/gases may be formed.
and precautions for	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 mea	asures
•	Avoid inhalation of spray mist and contact with skin and eyes. Wear appropriate personal protective equipment.
	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	
	Avoid inhalation of spray mist and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene
	Keep container closed. Do not store near heat sources or expose to high temperatures. Protect from direct sunlight.

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	3-9)	TWA	0.2 mg/m3	Thoracic fraction
US. NIOSH: Pocket Guid	e to Chemical Haza	ırds		
Components		Туре	Value	
Sulfuric acid (CAS 7664-9	3-9)	REL	1 mg/m3	
Biological limit values	No biological expo	sure limits noted	I for the ingredient(s).	
Appropriate engineering controls			• •	re limits and minimize the risk of supply and eye wash facilities.
Individual protection measur	es, such as person	al protective eq	uipment	
Eye/face protection	Wear approved ch	nemical safety go	oggles.	
Skin protection				
Hand protection	but be aware that	the liquid may pe	•	ubber gloves are recommended, uent change is advisable.
Other	Wear protective c	othing appropria	te for the risk of exposure	е.
Respiratory protection			e the applicable exposur spirator with acid gas car	re limits, use NIOSH approved rtridge.
Thermal hazards	Wear appropriate	thermal protectiv	e clothing, when necess	ary.
General hygiene considerations	• •	e eating, drinkin	g, and/or smoking. Routii	washing after handling the nely wash work clothing and

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.
-	

10. Stability and reactivity

Reactivity Chemical stability Reacts violently with strong bases. Stable under normal temperature conditions.

Possibility of hazardous	This product may react with reducing agents.			
reactions Conditions to avoid Incompatible materials Hazardous decomposition products	Sunlight. Heat. Freezing. Reducing agents. Alkalis. Metals. Sulfur dioxide.			
11. Toxicological inform	nation			
Information on likely routes	of exposure			
Ingestion	May cause disc	omfort if swallowed.	ngestion may cause nausea, headache and dizziness.	
Inhalation	Spray mists ma	Spray mists may cause respiratory tract irritation.		
Skin contact	Causes skin bu	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 mucous			
physical, chemical and	membranes, including burning and tearing.			
toxicological characteristics				
Information on toxicological	effects			
Acute toxicity		Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.		
Components		Species	Test Results	
Sulfuric acid (CAS 7664-9	93-9)			
Acute				
Oral	LD50	Rat	2,140 mg/kg	
Skin corrosion/irritation	Causes severe	Causes severe skin burns.		
Serious eye damage/eye irritation	Causes eye bu	'ns.		
Respiratory sensitization	No data availab	le.		

No data available. No data available.

itself is a carcinogen.

No data available. No data available.

No data available.

12. Ecological information

Specific target organ toxicity No data available.

Skin sensitization

Carcinogenicity

Germ cell mutagenicity

Reproductive toxicity

- single exposure

- repeated exposure Aspiration hazard

Specific target organ toxicity

Ecotoxicity Large amounts of the product may affect the acidity (pH-factor) in harmful effects to aquatic organisms.			n water with possible risk of	
Components		Species	Test Results	
Sulfuric acid (CAS 7664-93	-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.

Exposure to strong inorganic acid mists containing sulfuric acid has been classified as

carcinogenic to humans. The information located is insufficient to conclude that sulfuric acid

Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	D002: Corrosive waste
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	
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 hazardous substance		No	
SARA 311/312 Hazardous chemical		Yes	
SARA 313 (TRI reporting)		Not regulated	l.
Other federal regulations			
Clean Air Act (CAA) Section 112 Hazardous Air Polluta	ants (HAPs) List	Not regulated	l.
Clean Air Act (CAA) Section 112(r) Accidental Release	Prevention (40 CFR 68.130)	Sulfuric acid (CAS 7664-93	3-9)
Safe Drinking Water Act (SDWA)		Not regulated	l.
Drug Enforcement Administration (DEA). List 2, Esser Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and C Code Number		7664-93-9)	6552
Drug Enforcement Administration (DEA). List 1 & 2 Ex Chemical Mixtures (21 CFR 1310.12(c))	sempt Sulfuric acid (CAS	7664-93-9)	20%W/V
DEA Exempt Chemical Mixtures Code Number	Sulfuric acid (CAS	7664-93-9)	6552
US state regulations WARNING: This product cont	tains a chemical known to the Sta	te of California	to cause
Massachusetts RTK - Substance List	Sulfuric acid (CAS	7664-93-9)	
New Jersey Worker and Community Right-to-Know Ac	ct Sulfuric acid (CAS	7664-93-9)	500 lbs
Pennsylvania RTK - Hazardous Substances	Sulfuric acid (CAS	7664-93-9)	
Rhode Island RTK	Sulfuric acid (CAS	7664-93-9)	
California Proposition 65 - Carcinogens & Reproducti (CRT)	ve Toxicity Sulfuric acid (CAS	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 Rico	Toxic Substances Control Act (TSCA) Inventory	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	05/29/2017
Revision date	-
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.