

25 July 2017

Kit Components

Product Code	Description
R1804M and R1810M	Ready-Lyse™ Lysozyme Solution

Components

Ready-Lyse™ Lysozyme Solution



Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 07/08/2017 Version: X 0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **Product identifier**

: ReadyLyse™ Lysozyme Solution Product name

Product form

This component is part of the MasterPure™ Gram Positive DNA Purification Kits (MGP04020, Product code

MGP04100).

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

Use of the substance/mixture : Laboratory chemical.

Details of the supplier of the safety data sheet

Lucigen Corporation 2905 Parmenter Street Middleton, WI 53562 U.S.A. Phone: (608) 831-9011

Fax: (608) 831-9012

E-mail: techserv@lucigen.com

Emergency telephone number

Emergency number : 1-888-575-9695 (Lucigen: Monday-Friday, 8:00AM-5:00PM)

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Not classified.

Label elements 2.2.

GHS-US labelling

No labelling applicable.

Other hazards

Irritant to eyes and skin. Target organs are kidneys.

2.4. Unknown acute toxicity (GHS-US)

No data available.

SECTION 3: Composition/information on ingredients

3.2. **Mixture**

Name	Product identifier	%
Glycerol, CAS # 56-85-1 EC# 200-289-5 Chemical Formula: C ₃ H ₈ O ₃ Molecular Weight: 92.09 g/mol Synonyms: Glycerin, 1,2,3-Propanetril	Ingredient in product.	50%

SECTION 4: First aid measures

Description of first aid measures

: If exposed or concerned, consult a physician. Show this safety data sheet to the doctor in First-aid measures general

attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious

First-aid measures after inhalation IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. If not

breathing, give artificial respiration. Consult a physician.

First-aid measures after skin contact IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin for at least 15 minutes with tepid water. Consult a physician.

First-aid measures after eye contact IF IN EYES: Immediately flush with plenty of tepid water for at least 15 minutes. Remove

contact lenses if present and easy to do so. Continue rinsing. Consult a physician.

: IF SWALLOWED: Rinse mouth thoroughly and consult a physician. Do not induce vomiting. First-aid measures after ingestion

4.2. Most important symptoms and effects, both acute and delayed

: Not expected to present a significant acute hazard under anticipated conditions of normal use. Symptoms/injuries

Symptoms/injuries after inhalation : May cause upper respiratory irratation.

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Symptoms/injuries after skin contact

: May cause skin irritation.

Symptoms/injuries after eye contact

: Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Emits toxic fumes under fire conditions.

Explosion hazard : Emits toxic fumes under fire conditions.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin

and eyes.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crews

properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Personal Protective Equipment as described in Section 8.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves, respirator, and eye or face protection. For further

information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration

and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert absorbants, such as sand or vermiculite as soon as possible. Place in

closed waste container for disposal. This material and its container must be disposed of in a

safe way, and as per local, state, and federal legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do

: Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and water after handling material, leaving the laboratory, before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at -20°C in a freezer without a defrost cycle.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m3	USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000
		TWA	10 mg/3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract Irritation		
		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas. Emergency safety shower and eye wash station should be available. Avoid prolonged or repeated exposure.

Personal protective equipment : Gloves. Protective goggles. Laboratory Coat.



Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves

occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier. Suggested glove

materials are: Neoprene, Nitrile.

Eye protection : Safety goggles should be worn when working with mixture. Avoid direct contact with eyes.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Use NIOSH/MSHA-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment. Do not

breathe in vapour, mist, or dust.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid, viscous and colorless

Color : Colorless

Odor : No data available Odor Threshold : No data available pΗ : No data available : No data available Melting point Freezing point (50% aquesous solution) : No data available No data available **Boiling point** Flash point : No data available Relative evaporation rate : No data available Flammability (solid, gas) : No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density No data available Solubility in Water : No data available Log Pow : No data available Log Kow : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive properties : No data available

Oxidising properties

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: No data available

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Explosive limits : No data available

Other information 9.2.

None.

SECTION 10: Stability and reactivity

Reactivity 10.1.

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

Possibility of hazardous reactions 10.3.

None known. Hazardous polymerization does not occur.

10.4. Conditions to avoid

None known.

Incompatible materials 10.5.

Strong oxidizing agents, strong bases.

Hazardous decomposition products 10.6.

Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity : No data available Skin corrosion/irritation : No data available Serious eye damage/irritation : No data available Respiratory or skin sensitisation : No data available Germ cell mutagenicity : No data available

IARC - No component of this product present at levels greater than or equal to 0.1% is Carcinogenicity

dientified as probablye, possible, or confirmed human carcinogen by IARC.

ACGIH - No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

NTP - No component of this product present at levels greater than or equal to 0.1% is identified

as a known or anticpated carcinogen by NTP.

OSHA - No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinoen or potential carcinogen by OSHA.

Reproductive toxicity Specific target organ toxicity (single exposure) : No data available Specific target organ toxicity (repeated : No data available

exposure)

: No data available Aspiration hazard

Symptoms/injuries after inhalation : May cause upper respiratory irratation. May cause headaches.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion May cause gastrointestinal irritation.

Additional Information RTECS: MA8050000. Prolonged exposure may cause nausea, vomitting, and headache.

Kidneys may be affected.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2 Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Obtain the consent of pollution control authorities before discharging to wastewater treatment

plants. Product should not be discharged to surface waters without a NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local, state, and federal regulations. Avoid

release to the environment.

SECTION 14: Transport information

DOT

Not hazardous for transport

IMDG

No additional information available

IATA

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA 304 Extremely Hazardous Substances Reportable Quantity

This product does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

Chronic Health Hazard

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This materials does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.2. International regulations

European Union Directive 67/548/EEC: Irritant R36/38, irritant to eyes and skin. S26, in the case of eye contact, rinse immediately with plenty of water and consult a physician. S36, wear appropriate personal protective equipment.

15.3. US State regulations

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

Massachusetts Right To Know Components

Glycercol, CAS 56-81-5

New Jersey Right to Know Hazardous Substance List

Glycerol, CAS 56-81-5

Pennsylvania Right to Know List

Glycercol, CAS 56-81-5

SECTION 16: Other information

Indication of changes : Revision X.0: Updated format.

Revision date : 07/08/2017 Other information : Author:

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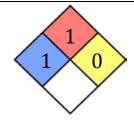
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NFPA health hazard : 1 – Exposure will cause irriation.

NFPA fire hazard : 1 – Flash point is at or above 93.3°C.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health: 1Flammability: 1Physical Hazard: 0Personal Protection:

This information is disclosed to the best of Lucigen's knowledge. This document does not constitute a contractual relationship with product end users or handlers with respect to the possible presence of hazards in this item. Disposal should be in accordance with applicable regional, national and local laws and regulations.

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