

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Hazardous Substances (Safety Data Sheets) Notice 2017. This notice is issued by the Environmental Protection Authority under sections 75 and 76(1)(b), (f), (g) and (h) of the Hazardous Substances and New Organisms Act 1996

Issuing Date 15-Oct-2021 Revision date 04-Dec-2024 Revision Number 2

## Section 1: Identification

Product identifier

Product Name ENZYME SOLUTION

Product Code(s) LPS100B

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

For professional use only

Uses advised against None known

Details of the supplier of the safety data sheet

Importer Manufacturer

Sysmex New Zealand Limited Cytocell Ltd., Oxford Gene Technology Level 3, 103 Carlton Gore Rd 418 Cambridge Science Park, Milton Road,

New Market Cambridge

Auckland 1023, New Zealand CB4 0PZ, United Kingdom +64-9-630-3554/ 0800797639 T: +44 (0)1223 294048 F: +44 (0)1223 294986

probes@cytocell.com http://www.ogt.com

E-mail address regulatory@sysmex.co.nz

Emergency telephone number

Emergency telephone For Sysmex Supply Chain support or Product Related Enquiries: +64 9 6303554 /

0800797639 (Mon to Fri – 8.30 am to 5.00 pm)

For any spillage or clean up issues: CHEMCALL 0800 243 622 (24 hours - 365 days)

National Poison Centre 0800 764 766 (0800 POISON)

## Section 2: Hazard identification

Classification of the substance or mixture

Respiratory sensitisation Category 1

Label elements



## Signal word DANGER

#### **Hazard statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapours/spray In case of inadequate ventilation wear respiratory protection

**Precautionary Statements - Response** 

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

If experiencing respiratory symptoms: Call a POISONS INFORMATION CENTRE or doctor

**Precautionary Statements - Disposal** 

Dispose of contents/container to an approved waste disposal plant

## Other hazards which do not result in classification

The product does not contain any substance(s) classified as PBT or vPvB. Causes mild skin irritation.

## Section 3: Composition/information on ingredients

Chemical name	CAS No.	Weight-%
Pepsin A	9001-75-6	0.1 - 5
Non-hazardous ingredients	Proprietary	Balance

## Section 4: First-aid measures

#### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance

**Inhalation** May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration.

Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use

barrier to give mouth-to-mouth resuscitation.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if

irritation develops and persists.

**Skin contact**Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a doctor.

Ingestion May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give

anything by mouth to an unconscious person. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information.

## Most important symptoms and effects, both acute and delayed

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or

wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

**Effects of Exposure** No information available.

## Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

## Section 5: Fire-fighting measures

**Suitable Extinguishing Media** 

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or alcohol-resistant foam.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Product is or contains a sensitiser. May cause sensitisation by inhalation.

Hazardous combustion products Carbon oxides.

Special protective actions for firefighters

Special protective equipment and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## Section 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing.

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

Environmental precautions

**Environmental precautions**Do not allow to enter into surface water or drains. Inform authorities in the event of product

spillage to water courses or sewage systems. Prevent further leakage or spillage if safe to

do so.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Pick up and

transfer to properly labelled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

## Section 7: Handling and storage

## Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. Avoid breathing vapours or mists. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before re-use.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing

and gloves, including the inside, before re-use.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from Incompatible materials. Keep containers tightly closed in a dry, cool and

well-ventilated place. Store locked up. Keep out of the reach of children.

**Incompatible materials** Strong acids, Strong bases, Alcohols.

## Section 8: Exposure controls/personal protection

#### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

## Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Handling of larger amounts: Wear protective eye glasses for protection against liquid

splashes. Wear safety glasses with side shields (or goggles).

**Hand protection** Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove

supplier for information on breakthrough time for specific gloves. Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental exposure controls** No information available.

## Section 9: Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid
Colour Colourless
Odour Odourless

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pHNo data availablepH (as aqueous solution)No data availableMelting point / freezing pointNo data availableInitial boiling point and boilingNo data available

range

Flash point No data available Flammability No data available

Flammability Limit in Air

Upper flammability or explosive Not applicable

limits

Lower flammability or explosive Not applicable

limits

Vapour pressureNo data availableRelative vapour densityNo data availableRelative densityNo data availableBulk densityNo data availableLiquid DensityNo data availableSolubility(ies)No data available

Water solubility

Partition Coefficient No data available

(n-octanol/water)

Auto-ignition temperatureNo data availableDecomposition temperatureNo data availableSADT (°C)No data availableKinematic viscosityNo data availableDynamic viscosityNo data available

**Particle characteristics** 

Particle SizeNo data availableParticle Size DistributionNo data available

Explosive properties

Oxidising properties

No information available.

No information available.

Other information

Molecular weightNo information availableVOC contentNo information availableSoftening pointNo information available

Information with regard to physical hazard classes

**Explosives** 

Explosive properties No information available.

Not flammable

Oxidising properties No information available.

## Section 10: Stability and reactivity

Reactivity

**Reactivity** None under normal use conditions.

Chemical stability

**Stability** Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

**Conditions to avoid** Protect from direct sunlight. Extremely high or low temperatures.

Incompatible materials

**Incompatible materials** Strong acids, Strong bases, Alcohols.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides.

## Section 11: Toxicological information

## **Acute toxicity**

## Information on likely routes of exposure

## **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause sensitisation in

susceptible persons. (based on components).

**Eye contact** Specific test data for the substance or mixture is not available. May cause slight eye

irritation.

**Skin contact** Specific test data for the substance or mixture is not available. Repeated or prolonged skin

contact may cause allergic reactions with susceptible persons. (based on components).

Causes mild skin irritation.

Ingestion Specific test data for the substance or mixture is not available. May cause additional affects

as listed under "Inhalation".

**Symptoms** Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, light-headedness, chest pain, muscle pain, or flushing.

Coughing and/or wheezing. Prolonged contact may cause redness and irritation.

**Acute toxicity** No information available.

## **Numerical measures of toxicity**

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Classification based on data available for ingredients. Causes mild skin irritation.

**Serious eye damage/eye irritation** No information available.

Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

**Aspiration hazard** No information available.

Data used to identify the health

effects

Refer to Section 16 for Key literature references and sources for data used to compile the

SDS.

## Section 12: Ecological information

**Ecotoxicity** 

**Ecotoxicity**The environmental impact of this product has not been fully investigated.

**Aquatic ecotoxicity** 

**Terrestrial ecotoxicity** There is no data for this product.

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

Mobility in soil

**Mobility in soil** No information available.

#### Other adverse effects

No information available.

## Section 13: Disposal considerations

#### Disposal methods

# Waste from residues/unused products

Dispose of product in packaging in a way that is consistent with the EPA Consolidation 30 April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act. Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste. Substances which are hazardous to human health or corrosive to metals – may be discharged into the environment if a tolerable exposure limit has been set for the substance (or a component of that substance); and the discharge does not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the tolerable exposure limit. If there is no tolerable exposure limit for the substance, then it may only be discharged into the environment if the substance is very rapidly converted to substances that are not hazardous substances.

## Contaminated packaging

For packages that have been in direct contact with hazardous substances, the person must ensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance that it contained, taking into account the material the package is manufactured from. Packages may only be reused or recycled if:

- the substance has a physical hazard other than corrosive to metal, and has been treated to remove any residual contents of the hazardous substance:
- or for substances that have a health or environmental hazard, or corrosive to metal, the contents of the residue in the package are below the threshold for the substance to be classified as hazardous in the Hazardous Substances (Hazard Classification) Notice 2020.

# Section 14: Transport information

<u>IATA</u> Not regulated

<u>IMDG</u> Not regulated

## Section 15: Regulatory information

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

EPA New Zealand HSNO approval code or group standard

HSR002596 - Laboratory Chemicals and Reagent Kits

National regulations

There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances

Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information

Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information

Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more information

## **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## International Inventories

Contact supplier for inventory compliance status

# **Section 16: Other information**

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Revision Note Updated format.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

American Conference of Governmental Industrial Hygienists
Agreement concerning the International Carriage of Dangerous Goods by Inland
Waterways (Europe)
Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
Australian Inventory of Industrial Chemicals
Acute Toxicity Estimate
American Society for the Testing of Materials
Biological Reference Values for Chemical Compounds in the Work Area
Biological tolerance values for occupational exposure
Biological exposure limits
Body weight
Maximum limit value
Carcinogen, Mutagen or Reproductive Toxicant
Department of Transportation (United States)
Domestic Substances List (Canada)
Emergency Schedule
Existing and New Chemical Substances (Japan)
Environmental Protection Agency
Globally Harmonized System
International Agency for Research on Cancer
International Air Transport Association
International Code for the Construction and Equipment of Ships carrying Dangerous
Chemicals in Bulk
International Civil Aviation Organisation
Inventory of Existing Chemical Substances in China
International Maritime Dangerous Goods
International Maritime Organization
International Organisation for Standardisation
Korean Existing Chemicals Inventory
Lethal Concentration to 50% of a test population

LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
Sen+	Sensitiser
Sk*	Skin designation
**	Hazard Designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

**Environmental Protection Agency** 

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Program

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 

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