

## SECTION 1

**Identification of the substance/mixture and of the company/undertaking****Catalogue number**

L001M, L001L

**Product name**

SynLD Loading Dye

**Pure substance/mixture**

Mixture

**Chemical names, common names**

Not applicable

**Unique Formula Identifier (UFI number)**

Not applicable

**Recommended use**

Research use

**Uses advised against**

Consumer use

**Details of the supplier of the safety data sheet**

Synthbiotics Kft.  
Hungary, 7135 Dunaszentgyörgy,  
Mátyás király utca 46.  
[info@synthbioenzymes.com](mailto:info@synthbioenzymes.com)

**Emergency details:**

**Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)**  
1097 Budapest, Nagyvárad tér 2.  
Tel.: +36 1 476 6464, +36 80 201 19  
[ettsz@okbi.antsz.hu](mailto:ettsz@okbi.antsz.hu)

## SECTION 2

**Hazard identification****Classification of the substance or mixture**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008

**Label elements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008

**Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008

**Other hazards**

No information available

**SECTION 3**

## Composition / Information of Ingredients

**Substances**

Irrelevant

**Mixtures**

We recommend handling all chemicals with caution.

Name of component	Content (%)	REACH number	CAS number/EC number	Classification
Trade secret 1	<0,1	-		
Trade secret 2	<0,1	-		
Trade secret 3	<0,1	-		

The main component is water. The other components of the mixture are a reaction buffer with nonhazardous elements and other minor ingredients.

**SECTION 4**

## First aid measures

**General information**

In case of unwellness, seek medical advice immediately.

**Description of first aid measures**
**Inhalation**

Provide fresh air. Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

**Skin contact**

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Eye contact**

Check for and remove contact lenses if present. Rinse opened eye immediately with plenty of water, also wash under the eyelids, for several minutes. Seek medical advice if irritation occurs.

**Ingestion**

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

**Notes to Physician**

Treat symptomatically.

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

No information available.

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

Treat symptomatically.

**Exposure limits**

No compounds in this product have defined exposure limits.

## SECTION 5

**Firefighting measures****Extinguishing media**

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment: e.g. water spray, carbon dioxide (CO<sub>2</sub>), dry chemical powder, alcohol resistant foam.

Unsuitable extinguishing media None known.

**Special hazards arising from the substance or mixture**

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**Advice for firefighters**

Standard procedure for chemical fires. 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**

Ensure adequate ventilation. Wear a lab coat to prevent spills from damaging clothing. See Section 8 for more information on personal protective equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided. See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

Wipe up any spills of the solution with absorbent material (e.g., paper towels) and water. Dispose of the paper towels in appropriate containers.

**Reference to other sections**

See Section 7 for information on safe handling, Section 8 for further information on protective clothing and equipment, Section 12 for additional Ecological Information and Section 13 for disposal instructions.

## SECTION 7

**Handling and storage****Precautions for safe handling**

Take off contaminated clothing. Wash hands before breaks and after work. Wear a lab coat to prevent spills from damaging clothing. Keep closed when not in use. Do not eat, smoke or drink where material is handled, processed or stored. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes.

**Information about protection against explosions and fires**

No special measures required.

**Conditions for safe storage, including any incompatibilities**

Keep tightly closed in a dry place. Store at 2 – 8 °C. Do not store together with strong oxidizing agents.

**Specific end use(s)**

Recommended for research use, not recommended for consumer use.

## SECTION 8

## Exposure controls/personal protection

**Control parameters**

There are no components with limit values that require monitoring at the workplace.

**Exposure controls****Engineering controls**

No information available.

**Eye/face protection**

Wear eye/face protection. Tightly sealed safety glasses.

**Skin and body protection**

Use of protective clothing. Suitable protective clothing: Lab coat. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Respiratory protection**

No special protective equipment required.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

**Thermal hazards**

No information available.

**Other information**

Take off contaminated clothing. Wash hands before breaks and after work. Wear a lab coat to prevent spills from damaging clothing. Keep closed when not in use. Do not eat, smoke or drink where material is handled, processed or stored. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes.

**SECTION 9**

## Physical and chemical properties

**Information on basic physical and chemical properties**

**Physical state:** Blue liquid

**Form:** Fluid

**Colour:** Blue

**Odour:** Odourless

**Odour threshold:** Not determined.

**pH-value:** No data available.

<b>Property</b>	<b>Values</b>	<b>Determination Method</b>
<b>Melting point/Melting range:</b>	No data available.	
<b>Boiling point/Boiling range:</b>	No data available.	
<b>Flash point:</b>	No data available.	
<b>Flammability (solid, gaseous)</b>	No data available.	
<b>Flammability Limit in Air</b>	No data available.	
<b>Ignition temperature:</b>	No data available.	
<b>Decomposition temperature:</b>	No data available.	
<b>Self igniting:</b>	Not determined.	
<b>Danger of explosion:</b>	Product does not present an explosion hazard.	
<b>Explosion limits:</b>	No data available.	
<b>Vapour pressure at 20°C:</b>	Not determined.	
<b>Density:</b>	Not determined.	
<b>Relative density:</b>	No data available.	
<b>Vapour density:</b>	Not determined.	
<b>Evaporation rate:</b>	Not determined.	
<b>Solubility in water:</b>	Readily soluble.	
<b>Solubility in other solvents:</b>	No data available.	
<b>Segregation coefficient (n-octanol/water):</b>	Not determined.	
<b>Viscosity:</b>	Not determined.	
<b>Oxidising properties:</b>	No data available.	
<b>Particle characteristics:</b>	No data available.	

**Other information**

No further relevant information available.

**How to detect this substance**

There are no unusual properties. The product's characteristics are very similar to those for water except its blue color.

**SECTION 10**

## Stability and Reactivity

**Reactivity**

No dangerous reaction known under conditions of normal use.

**Chemical stability**

Stable under recommended conditions for use and storage.

**Sensitivity to mechanical impact**

None known.

**Sensitivity to static discharge**

None.

**Possibility of hazardous reactions**

Hazardous reaction has not been reported.

**Conditions to avoid**

Protect against: UV-radiation/sunlight, heat.

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

## SECTION 11

**Toxicological information****Potential Health Effects**

No long-term or immediate health effect from exposure to this product is presently known.

**Acute toxicity**

No information available.

**Serious eye damage/irritation**

No information available.

**Dermal/skin corrosion/irritation**

No information available.

**Inhalation/respiratory**

No information available.

**Oral/ingestion**

No information available.

**Aspiration hazard**

No information available.

**Specific target organ toxicity – single exposure**

No information available.

**Specific target organ toxicity – repeated exposure**

No information available.

**Carcinogenicity**

No information available.

**Reproductive toxicity**

No information available.

**Germ cell mutagenicity**

No information available.

**Information on other hazards****Endocrine disrupting properties**

No information available.

**Other information**

No information available.

## SECTION 12

**Ecological information****Toxicity**

No information available.

**Environmental Fate (Degradation, Transformation, and Persistence)**

Bio-concentration is not expected to occur.

**Persistence and degradability**

The enzyme is biodegradable.

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available.

**Result of PBT and vPvB assessment**

No information available.

**Endocrine disrupting properties**

No information available.

**Other adverse effects**

None known.

## SECTION 13

**Disposal considerations****Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Do not reuse empty containers. Disposal of this product, its container, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. Do not allow to enter into surface water or drains. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

**List of Wastes Code - residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**List of Wastes Code - used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14**
**Transport information**
**ADR / IMDG / IATA / RID**

This product is not subject to transport regulations.

**UN Proper shipping name**

Not determined.

**UN number**

Not determined.

**Transport Hazard class**

Not determined.

**Environmental hazards - MP**

Not determined.

**ID number**

Not determined.

**Special precautions for the user**

Refer to section 6-8.

**Transport in bulk according to Annex II of MARPOL 73/78 and IBC code**

Not applicable.

**Packing group**

Not regulated.

**Special Provisions**

Not regulated.

**Special precautions for user**

Not applicable.

**Transport/Additional information**

Not dangerous according to the above specifications.

**SECTION 15**
**Regulatory information**
**Safety, health and environmental regulations/legislation specific for the substance or mixture**
**Substances of Very High Concern**

None.

**Substance subject to authorisation per REACH Annex XIV**

None.

**Restricted substances under EC 1907/2006, Annex XVII**

Name of component	Content (%)
Trade secret 1	<0,1

Use restricted. See item 75.

**Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)**

None.



**Regulation (EU) No 2019/1021 (Stockholm Convention – persistent organic pollutants)**

None.

**EU - Substances Depleting the Ozone layer (1005/2009)**

None.

**German Water hazard classes (Wassergefährdungsklassen)**

Not classified.

**Other International Inventories**

No information available.

**Chemical safety assessment**

No chemical safety assessment has been carried out.

## SECTION 16

**Other information**

This safety data sheet complies with the requirements COMMISSION REGULATION (EU) 2020/878.

**Revision note**

This SDS is valid from 01.03.2023.

Contact [info@synthbioenzymes.com](mailto:info@synthbioenzymes.com) for latest revision.

**Abbreviations and acronyms**

°C – Degrees Celsius

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS – Chemical Abstracts Service

EC number – European Community number

EU – European Union

IATA – International Air Transport Association

IMDG – International Maritime Dangerous Goods

Kow – Octanol-Water Partition Coefficient

PBT - Persistent, Bioaccumulative and Toxic

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail

SDS – Safety Data Sheet

UFI – Unique Formulation Identifier

UN – United Nations

vPvB - Very Persistent and Very Bioaccumulative

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide for safe handling, use, processing, storage, transportation, disposal and release. All materials and mixtures may present unknown hazards and should be used with caution. The information relates only to the specific material and may not be valid for such material used in combination with any other materials or in any process unless expressly specified in the text.

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