According to Regulation (EC) No. 1907/2006 (REACH)



LACTASE 'B' GALACTOSIDASE A01829

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

1.1 Product identifier

Product name: Lactozym Pure 6500 L

Product number: A01829

CAS No.: 9031-11-2

EC No.: Index No.:

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

Identified use(s): Laboratory chemicals. Manufacture of substances

Uses advised against: Follow supplier's recommendations on correct use of the product.

1.3 Details of the supplier of the safety data sheet

Supplier: Philip Harris

2 Gregory Street

Hyde Cheshire SK14 4HR

Telephone: +44 (0)845 1200 506

Fax: +44 (0)161 367 2140

E-mail: enquiries@philipharris.co.uk

1.4 Emergency telephone number

In case of emergency, call: +44 (0)845 1200 506

Monday - Friday: 08:30 - 17:00 UK time

SECTION 2: Hazard Identification

- 2.1 Classification of the substance or mixture
 - 2.1.1. Classification according to Regulation (EC) No. 1272/2008 (CLP)

Not classified

2.1.2. Classification according to Directive 67/548/EEC & Directive 1999/45/EC

R42: May cause sensitisation by inhalation

2.2 Label elements

2.2.1.

According to Regulation (EC) No. 1907/2006 (REACH)



Hazard pictogram(s):



Signal Word: Warning.

Hazard Statement(s): H302: Harmful if swallowed. H315: Causes skin irritation.

H335: May cause respiratory irritation.

Precautionary Statement(s): P261: Avoid breathing dust / fume / gas / mist / vapours / spray.

P264: Wash thoroughly after handling.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/ shower.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310: Immediately call a POISON CENTER or doctor.

P405: Store locked up.

P501: Dispose of contents/container to hazardous waste collection point for disposal in accordance with local, regional, national or

international regulations.

Supplemental Hazard information (EU):

None.

2.3 Other hazards None

SECTION 3: Composition/information on ingredients

3.2 **Mixtures**

Chemical name	Molecular Weight	CAS No.	EC No.	Formula.	Classification (Regulation (EC) No. 1272/2008 (CLP))	Classification (Directive 67/548/EEC)
Lactozym Pure 6500 L		9031-11-2	232-864-1		Not classified	R42
1					1.000	

See Section 16 for full description of R phrases and H statements.

SECTION 4: First Aid Measures

According to Regulation (EC) No. 1907/2006 (REACH)



4.1 Description of first aid measures

INHALATION: Remove person to fresh air and keep comfortable for breathing. Keep warm and at rest. If

irritation persists or if you feel unwell, obtain immediate medical attention.

SKIN CONTACT: Take off immediately all contaminated clothing. Rinse skin with water/shower for at least

15 minutes. Obtain immediate medical attention. Contaminated clothing should be

washed before reuse.

EYE CONTACT: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present

and easy to do. Continue rinsing, making sure to rinse under eyelids. Obtain immediate

medical attention.

INGESTION: Do not induce vomiting. Provided the patient is conscious, rinse mouth out with water and

give 200-300 mL of water to drink. Never give anything by mouth to an unconscious

person. Obtain immediate medical attention.

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

May cause an asthma-like shortness of breath. Upper respiratory irritation. Risk of sensitisation or allergic reactions among sensitive individuals.

4.3 Indication of any immediate medical attention and special treatments needed:

Ingestion: May cause discomfort if swallowed.

Skin Contact: Prolonged skin contact may cause redness and irritation.

Eye Contact: May cause temporary eye irritation.

Inhalation: May cause an asthma-like shortness of breath. Upper respiratory irritation.

Risk of sensitisation or allergic

reactions among sensitive individuals.

In case of accident or if you feel unwell, seek medical advice immediately. If breathing is laboured, oxygen should be administered by qualified personnel.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Alcohol-resistant foam, CO₂, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition may liberate carbon oxides and other toxic gases or vapours. (Oxides of: Carbon).

5.3 Advice for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in the case of fire. Dike and collect extinguishing water.

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SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas. (See Section 8).

6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (See Section 8). Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and materials for containment and clearing up

6.3.1 For containment

Stop the leak if it is safe to do so. Contain the spillage with sand, earth or any suitable adsorbent material.

6.3.2 For cleaning up

Pick up and arrange disposal without creating dust. Sweep up with shovel. Keep in suitable closed container for disposal according to section 13.

In case of minor leak or seepage from container: Place leaking generator into sealed container for disposal. Wipe contaminated areas with damp tissues. Dispose of contaminated material as waste according to Section 13.

6.3.3 Other advice

6.4 Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

In unbroken packaging – dry and protected from the sun. The product has been formulated for optimal stability. Extended storage or adverse conditions such as high temperature or higher humidity may lead to a higher dosage requirement

7.3 Specific end use(s)

According to Regulation (EC) No. 1907/2006 (REACH)



SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Workplace exposure limits

Source:

Substance	CAS No.	LTEL (8 hr TWA)		STEL (15 min)		Comments
Substance		ppm	mg/m³	ppm	mg/m³	Comments

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday

8.2.2 Personal protection

Eye protection: Goggles or safety glasses with side shields giving complete

protection to eyes (EN 166). Use equipment for eye protection tested and approved under appropriate government standards such

as NIOSH (LIS) or EN166 (ELI)

as NIOSH (US) or EN166 (EU)

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use

proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands.

Hand protection: The selected protective gloves have to satisfy the specifications of

EU Directive 89/686/EEC and the standard EN374 derived from it. Immersion & slash protection, Material: Nitrile rubber, minimum

thickness 0.11mm, break through time: 480mins

Other: Long sleeve protective clothing.

Respiratory protection: For nuisance exposures use type (US) or type P1 (EU EN 143)

particle respirator. For higher level protection use type OV/AG/P99 or ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government

standards such as NIOSH (US) or CEN (EU)

Thermal hazards: Not applicable.

8.2.3 Environmental exposure controls

Inform environmental manager of all incidents involving this product.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Light Yellow. Colour can vary from batch to batch. Colour intensity

is not an indication of enzyme activity.

Odour:

Odour threshold:

No Data Available

No Data Available.

PH:

No Data Available.

Version: 1 Lactozym Pure 6500 L A01829 Date: 09/01/2014

According to Regulation (EC) No. 1907/2006 (REACH)



Melting/freezing point: No Data Available. Initial boiling point and boiling range: No Data Available Flash point: No Data Available. **Evaporation rate:** No Data Available Flammability (solid; gas): No Data Available Upper/lower flammability or explosive limits: No Data Available Vapour pressure: No Data Available Vapour density: No Data Available

Relative density: 1.15

Solubility(ies):

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

No Data Available

9.2 Other informationNo Data Available.

SECTION 10: Stability and Reactivity

10.1 Reactivity: No Data Available

10.2 Chemical stability: Stable under normal conditions

10.3 Possibility of hazardous reactions: No Data Available

10.4 Conditions to avoid: High temperatures. Sources of ignition

10.5 Incompatible materials: No specific or groups of materials are likely to react to produce a

hazardous situation.

10.6 Hazardous decomposition products: Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2)

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity: Toxic Dose 1 – LD50 >2000 mg/kg (oral rat)

Skin corrosion/irritation: Irritant

Serious eye damage/irritation: Irritant

Skin sensitisation: No Data Available

Inhalation: May cause sensitisation by inhalation. Vapours may irritate the

respiratory system and cause coughing, a

According to Regulation (EC) No. 1907/2006 (REACH)



Ingestion: May cause discomfort if swallowed. Gastrointestinal systems,

including upset stomach. May irritate and cause stomach pain,

vomiting and diarrhoea

Germ cell mutagenicity: No Data Available

Carcinogenicity: No Data Available

Reproductive toxicity

Specific Target Organ Toxicity –

single exposure

No Data Available No Data Available

Specific Target Organ Toxicity -

repeated exposure

No Data Available

Aspiration hazard No Data Available

Information on likely routes of exposure

Inhalation May be harmful if inhaled. Causes respiratory tract irritation

Skin contact May be harmful if absorbed through skin. Causes skin irritation

Eye contact May be harmful. Causes eye irritation

Ingestion Harmful if swallowed Symptoms related to the physical, chemical and No Data Available

toxicological characteristics

Mixture versus substance Information

stance Information No Data Available

Other information To the best of our knowledge, the chemical, physical, and

toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological Information

12.1 Toxicity Not considered toxic to fish
 12.2 Persistence and degradability This product is biodegradable

12.3 Bioaccumulative potential This product does not contain any substances expected to be

bioaccumulating

12.4 Mobility in soil12.5 Results of PBT and vPvBNo Data AvailableNo Data Available

assessment

12.6 Other adverse effects . No Data Available

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Do not puncture or incinerate even when empty. Waste is classified as hazardous waste. Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: Transport Information

ADR

14.1 UN Number Not classified as hazardous for transport
 14.2 UN Proper shipping name Not classified as hazardous for transport
 14.3 Transport hazard class(es) Not classified as hazardous for transport

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SECTION 15: Regulatory Information

Special precautions for the user

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

Environmental hazards

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

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as amended. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.

Not classified as hazardous for transport

Not classified as hazardous for transport Not classified as hazardous for transport

Version: 1 Date: 09/01/2014

14.5

14.6

14.7

According to Regulation (EC) No. 1907/2006 (REACH)



15.2 Chemical Safety Assessment

A chemical safety assessment is not required and has not been carried out.

SECTION 16: Other Information

Full text of relevant R-phrases and/or H-statements:

Hazard Statement(s): H302: Harmful if swallowed. H315: Causes skin irritation.

H335: May cause respiratory irritation.

Supplemental Hazard information (EU):

None.

Risk phrase(s): P261: Avoid breathing dust / fume / gas / mist / vapours / spray.

P264: Wash thoroughly after handling.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/ shower.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310: Immediately call a POISON CENTER or doctor.

P405: Store locked up.

P501: Dispose of contents/container to hazardous waste collection point for disposal in accordance with local, regional, national or

international regulations.

Abbreviations:

CAS: Chemical Abstracts Service;

EINECS: European Inventory of Existing Commercial Chemical Substances

EC₅₀: Effective Concentration 50% EL₅₀: Effective Loading rate 50% IC₅₀: Inhibitory Concentration 50% LC₅₀: Lethal Concentration 50%

LD₅₀: Lethal Dose 50%

LL₅₀: Lethal Loading rate 50%
LCLo: Lowest lethal concentration
LOEL: Lowest Observed Effect Level
NOEL: No Observed Effect Level

PBT: Persistent, Bioaccumulative and Toxic.
vPvB: Very Persistent and Very Bioaccumulative.

According to Regulation (EC) No. 1907/2006 (REACH)



References:

Supplier's Safety Data Sheets for ingredients
ECHA disseminated REACH dossiers
ECHA Classification & Labelling Inventory
Approved Classification and Labelling Guide (Sixth edition)
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP)
Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)

Disclaimer:

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

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