

**SAFETY DATA SHEET
LYCASIN® 85/55****SECTION 1 : Identification****1.1 Product identifier:****Product name:** LYCASIN® 85/55 - MALTITOL SYRUP**Chemical name:** Syrups, corn, hydrogenated**CAS-No.:** 68425-17-2**EC No.:** 270-337-8**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

| Identified uses: | Uses advised against: |
|--|-----------------------|
| Intermediate.Formulation and Packaging.Food.; Animal Feed.Pharmaceuticals.Manufacture of textiles, leather, fur.PC 39 : Cosmetics, personal care products.; Washing and cleaning products (including solvent based products) | None Reported |

1.3 Details of the supplier of the safety data sheet:**Supplier:**ROQUETTE FRERES
1 Rue de la Haute Loge
62136 LESTREM - France**Telephone:** +33 3 21 63 36 00**Fax:** +33 3 21 63 38 50**E-mail:** sds@roquette.com**1.4 Emergency telephone number:**World directory of poisons centres : http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture:**

The product has not been classified as dangerous according to GHS.

2.2 Label elements: Not applicable**2.3 Other hazards:** No data available.**SECTION 3: Composition/information on ingredients****3.1 Substance:**

| Chemical name | Concentration | CAS-No. |
|----------------------------|---------------|------------|
| Syrups, corn, hydrogenated | >=85% | 68425-17-2 |

SECTION 4: First aid measures**4.1 Description of first aid measures:**

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| Inhalation: | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| Eye contact: | Flush thoroughly with water for at least 15 minutes. Get medical assistance. |
| Skin contact: | Wash with soap and water. For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. |
| Ingestion: | Product not hazardous when ingested. Ingestion may cause: Diarrhoea. Get medical attention if any discomfort continues. |
| 4.2 Most important symptoms and effects, both acute and delayed: | Ingestion may cause: Diarrhoea. Material may be hot. May cause severe thermal burns. |
| 4.3 Indication of any immediate medical attention and special treatment needed: | |
| Treatment: | Treat symptomatically. |

SECTION 5: Firefighting measures

5.1 Extinguishing media:

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| Suitable extinguishing media: | Water spray, foam, dry powder or carbon dioxide. |
| Unsuitable extinguishing media: | None known. |

5.2 Special hazards arising from the substance or mixture:

Fire or excessive heat may produce hazardous decomposition products. See Section 10.

5.3 Advice for firefighters:

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| Special Fire Fighting Procedures: | Cool containers exposed to heat with water spray and remove container, if no risk is involved. |
| Special protective equipment for fire-fighters: | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |

SECTION 6: Accidental release measures

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|---|---|
| 6.1 Personal precautions, protective equipment and emergency procedures: | Caution: Contaminated surfaces may be slippery. See Section 8 of the SDS for Personal Protective Equipment. |
| 6.2 Environmental precautions: | Not regarded as dangerous for the environment. |
| 6.3 Methods and material for containment and cleaning up: | Absorb spillage with suitable absorbent material. Collect and dispose of spillage as indicated in section 13 of the SDS. Flush area with water. |

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Material may be hot. See Section 8 of the SDS for Personal Protective Equipment.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a dry place. Avoid contact with oxidizing agents. Maintain an appropriate temperature to avoid crystallisation problems.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters:****Occupational exposure limits:**

This product does not contain any components >1% with specific occupational exposure limits.

8.2 Appropriate engineering controls:

No special precautions.

8.3 Individual protection measures, such as personal protective equipment:**Eye/face protection:**

If risk of splashing, wear safety goggles or face shield.

Skin protection:**Hand Protection:**

When material is heated, wear gloves to protect against thermal burns.

Other:

Wear suitable protective clothing.

Respiratory Protection:

No specific precautions.

Hygiene measures:

Handle the product in accordance with the good hygiene practices and safety instructions.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties:**

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|---|-----------------------------|
| Physical State: | Liquid |
| Form: | Viscous Liquid |
| Color: | Colorless |
| Odor: | Odorless |
| pH: | ~ 5,5 at 50 % |
| Freezing point: | ~ 0 °C |
| Boiling Point: | > 105 °C |
| Flash Point: | > 200 °C |
| Flammability (solid, gas): | NC: Not Classified |
| Vapor pressure: | ~ 12,1 hPa |
| Vapor density (air=1): | ~ 0,7 |
| Relative density: | ~ 1,44 |
| Solubility in Water: | Completely Soluble at 20 °C |
| Partition coefficient (n-octanol/water): | < 0,3 - REACH data - |
| Viscosity: | 7 252 mPa.s 50 °C |

9.2 Other information:

Conductivity: ~ 91 µS/cm

The data reported in this section does not take the place of specifications.

SECTION 10: Stability and reactivity

- 10.1 Reactivity:** Oxidizing agents.
- 10.2 Chemical stability:** Material is stable under normal conditions.
- 10.3 Possibility of hazardous reactions:** No hazardous reactions under ordinary conditions of use and storage.
- 10.4 Conditions to avoid:** Solutions may become hazy, partially precipitate from solution, or gel with time on exposure to low temperature.
- 10.5 Incompatible materials:** Strong oxidizing substances.
- 10.6 Hazardous decomposition products:** Carbon Monoxide. Carbon Dioxide.

SECTION 11: Toxicological information

Component Information :

11.1 Information on toxicological effects:

Acute toxicity :

| Test / Substance | Species | Type / Result | Exposure | Remarks |
|---|---------|---|----------|----------------|
| OECD 423 Syrups, hydrolyzed starch, hydrogenated | Rat | LD50 - Oral > 5000mg/kg No mortalities were reported during the study period. | | - REACH data - |

Skin irritation. :

| Test / Substance | Species | Result | Exposure | Remarks |
|---|---------|----------------|----------|--|
| OECD 439 Glucose syrups wheat hydrolysed | Human | Not Irritating | 1 h | - REACH data - Data from similar product. |

Serious eye irritation :

| Test / Substance | Species | Result | Exposure | Remarks |
|---|---------|----------------|----------|--|
| OECD 405 Glucose syrups wheat hydrolysed | Rabbit | Not Irritating | 72 h | - REACH data - Data from similar product. |

Sensitization :

| Test / Substance | Type | Species | Result | Remarks |
|---|---------|---------|-----------------|--|
| OECD 429 Glucose syrups wheat hydrolysed | In vivo | Mouse | Non-Sensitising | - REACH data - Data from similar product. |

Repeated dose toxicity :

| Test / Substance | Species | Result | Exposure | Remarks |
|---|---------|--|-------------|----------------|
| OECD 453 Syrups, hydrolyzed starch, hydrogenated | Rat | NOAEL - 4500 mg/kg No treatment related effects. | 52 Week(s). | - REACH data - |

Mutagenesis :

| Test / Substance | Type | Species | Result | Remarks |
|--|----------|----------------|----------|----------------|
| OECD 473 Syrups, hydrolyzed starch, hydrogenated | In vitro | Hamster | Negative | - REACH data - |
| OECD 471 (Ames) Syrups, hydrolyzed starch, hydrogenated | In vitro | S. typhimurium | Negative | - REACH data - |
| OECD 474 Syrups, hydrolyzed starch, hydrogenated | In vivo | Mouse | Negative | - REACH data - |

Carcinogenicity :

| Test / Substance | Species | Route of Exposure / Exposure | Result | Remarks |
|---|---------|------------------------------|-------------------------------|----------------|
| OECD 451 Syrups, hydrolyzed starch, hydrogenated | Rat | Oral | No treatment related effects. | - REACH data - |

Reproductive toxicity :

| Test / Substance | Species | Route of Exposure / Exposure | Result | Remarks |
|---|---------|------------------------------|-------------------------------|----------------|
| OECD 416 Syrups, hydrolyzed starch, hydrogenated | Rat | Oral | No treatment related effects. | - REACH data - |

SECTION 12: Ecological information

Component Information :

12.1 Toxicity:
Acute toxicity:

| Test / Substance | Species | Type/Result | Exposure | Remarks |
|---|---------------------------------|--------------------------------------|----------|--|
| OECD 203 4-O-a-D-glucopyranosyl-D-glucitol | Oryzias latipes | LC50 : > 1500 mg/l Not classified | 96 h | - REACH data - Data from similar product. |
| OECD 202 4-O-a-D-glucopyranosyl-D-glucitol | Daphnia magna | LC50 : > 1450 mg/l Not classified | 48 h | - REACH data - Data from similar product. |
| OECD 201 4-O-a-D-glucopyranosyl-D-glucitol | Pseudokirchneriella subcapitata | EC50 : >1490 mg/l Not classified | 72 h | - REACH data - Data from similar product. |
| OECD 202 D-glucitol | Daphnia magna | LC50 : > 1390 mg/l Not classified | 48 h | - REACH data - |
| OECD 201 D-glucitol | Pseudokirchneriella subcapitata | EC50 : >1420 mg/l Not classified | 72 h | - REACH data - |

Chronic Toxicity:

No data available.

12.2 Persistence and degradability:

| Test / Substance | Result | Remarks |
|--|--|--|
| OECD 301b Glucose syrups wheat hydrolysed | > 73 % / 28 d The product is readily biodegradable. | - REACH data - Data from similar product. |
| OECD 301b Glucose syrups wheat hydrolysed | > 60 % / 10 d The product is readily biodegradable. | - REACH data - Data from similar product. |

12.3 Bioaccumulative potential:

Potential to bioaccumulate is low.

12.4 Mobility in soil:

This material is readily biodegraded and is not likely to bioconcentrate.

12.5 Other adverse effects: None known.

SECTION 13: Disposal considerations

13.1 Disposal methods:

Product: Dispose of waste in an appropriate authorized treatment facility in accordance with regulations in force and product characteristics at time of disposal.(for example, energy recovery).

Packaging material: Single use packaging. Collect for salvage or disposal.

SECTION 14: Transport information

14.1 - 14.4 This material is not subject to transport regulations (IMDG, ICAO/IATA, ADR/RID, ADN).

14.5 Environmental hazards: Not regulated.

14.6 Special precautions for user: No special precautions.

14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

SECTION 15: Regulatory information

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

International Inventories :

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|---|---------|
| Australia. Inventory of Chemical Substances (AICS): | Listed. |
| Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL): | Listed. |
| China. Inventory of Existing Chemical Substances (IECSC): | Listed. |
| EU. European Inventory of Existing Commercial Chemical Substances (EINECS): | Listed. |
| Korea. Existing Chemicals Inventory (KECI): | Listed. |
| New Zealand. Inventory of Chemicals (NZIoC): | Listed. |
| Taiwan. Existing Chemicals Inventory (TCSI): | Listed. |
| US. Toxic Substances Control Act (TSCA): | Listed. |
| Vietnam. National Chemical Inventory: | Listed. |

This Safety Data Sheet is in conformity with appendix 4 of the GHS (Globally Harmonised System of Classification and Labelling of Chemicals).

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: REACH registration dossier:
<https://echa.europa.eu/en/registration-dossier/-/registered-dossier/14249>

Other information: Updated version of this document is available at :<https://www.roquette.com/site-search#documents>

Abbreviations and acronyms used in the SDS.:

LD50: lethal dose 50%
LC50 : lethal concentration 50%
EC50 : The effective concentration of substance that causes 50% of the maximum response.
OECD : Organisation for Economic Cooperation and Development
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

Disclaimer:

The information provided in this Safety Data Sheet (SDS) relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. It is the responsibility of the user to be aware of and to follow the regulations applying to our product for its possession, handling and use.

The information given is designed only as a guidance and is not to be considered a warranty or quality specification.

All information and instructions provided in this SDS are based on the current state of our knowledge at the latest revision date indicated.