

# Safety Data Sheet

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

Trade name: Carbohydrate standard  
Product No: 081040

Version: 1.0/ EN  
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Print Date: 13 July 2009  
Revision Date: 13 July 2009

## 1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKIN

**Product name:** Carbohydrate standard  
**Product number:** 081040  
**Use of the substance/ preparation:** Monitoring the separation performance of diverse lectin-adsorbents  
**Company:** GALAB Technologies GmbH  
Max-Planck-Str. 1  
21502 Geesthacht  
Germany  
**Telephone:** +49 (0) 4152-889400  
**Fax:** +49 (0) 4152-889401  
**E-Mail /Internet:** [info@galab.de](mailto:info@galab.de)/[www.galab.de](http://www.galab.de)  
**Emergency Phone:** +49 (0) 4152-889400 (Mo - Fr 09.00 – 17.00)

## 2. HAZARDS IDENTIFICATION

**Classification:** The preparation is irritant, harmful and harmful to aquatic organism.

**Information pertaining to special dangers for human an environment:**

**Adverse human health effects and symptoms:** The preparation irritates the eyes, the upper respiratory tract and the skin. Swallowing is harmful.

**Adverse environmental effects:** The preparation is harmful to aquatic organisms.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Preparation related information:**

- 4-Nitrophenyl- $\beta$ -D-Lactopyranoside in Hepes buffer, pH 8.0 contains sodium azide

**Hazard ingredients:**

Chemical name	CAS-No.	EC-No.	Content [%]	Classification		
				Hazard characteristics	R-Set	S-Set
4-Nitrophenyl- $\beta$ -D-Lactopyranoside	4419-94-7	-	0,02	-	-	-
Sodium azide	26628-22-8	247-852-1	0,05	-	-	-

**Additional information:**

Toxic and environmentally hazardous substances < 0,1 % do not underlie the Directive 1999/45/EC and must not be described in detail.

## 4. FIRST AID MEASURES

**In case of inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**In case of skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**In case of eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**In case of ingestion:** If swallowed, wash out mouth with water provided person is conscious. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt o waistband.

## 5. FIRE-FIGHTING MEASURES

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

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**Special exposure hazards arising from the substances or preparation itself, combustion products, resulting gases:**  
May be combustible at high temperature. Emits toxic fumes under fire conditions.

**Special protective equipment for fire-fighters:** Fire fighters should wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Be sure to wear an approved/certified respirator or equivalent.

**Additional information:** The preparation is packed in a plastic bottle.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Removal of ignition sources. Provision for sufficient ventilation and respiratory protection. Control of dust formation. Prevention of skin and eye contact.

**Environmental precautions:** Keeping away from drains, surface- and ground water and soil, possible need to alert the neighbourhood.

**Methods for cleaning-up:** Use appropriate tools to put the spilled liquid in a convenient waste disposal container. Avoid raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

## 7. HANDLING AND STORAGE

**Handling:** Keep container closed until use. Working temperature can be from 4 to 20 °C.

**Storage:** Store at 4-8 °C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Personal protection equipment:** Provide exhaust ventilation.

**Respiratory protection:** Use a dust mask type FFP2.

**Hand protection:** Handle with gloves.

**Eye protection:** Safety glasses. Ensure that eye wash stations are proximal to the work station location.

**Body protection:** Use a lab coat. Ensure that safety showers are proximal to the work station location.

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

**Physical state:** liquid, aqueous

**Colour:** colourless

**Odour:** no data available

**Safety relevant basis data**

**pH (20 °C):** 8,0

## 10. STABILITY AND REACTIVITY

The product is stable under the recommended storage and handling conditions.

**Conditions to avoid:** Freezing. Heating.

**Materials to avoid:** Strong oxidising agents.

**Hazardous combustion or decomposition products:** The nature of decomposition products are not known.

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## 11. TOXICOLOGICAL INFORMATION

Acute effects (toxicity tests): no data available

Specific symptoms an animal studies: no data available

Irritant and corrosive effects: no data available

Irritation to respiratory tract: Material is irritating to mucous membranes and upper respiratory tract.

Sensitization: May cause allergic reaction.

In case of skin contact: May cause skin irritation.

In case of inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: no data available

Mobility: no data available

Persistence and degradability: no data available

Biodegradation: The products of degradation are less toxic than the product itself.

## 13. DISPOSAL CONSIDERATIONS

Appropriate disposal/ Product: Waste must be disposed in accordance with federal, state and local regulations. Contact a licensed disposal service to dispose of this material.

## 14. TRANSPORT INFORMATION

Land transport (ADR/ RID/ GGVSE): Non-hazardous for road transport.

Sea transport (IMDG-Code/ GGVSee): Non-hazardous for sea transport.

Air transport (ICAO-IATA/ DGR): Non-hazardous for air transport.

## 15. REGULATORY INFORMATION

EU-Regulations:

Labelling

Chemical name: 4-Nitrophenyl- $\beta$ -D-Lactopyranoside (> 0,1 %)

Indication of danger: T

Classification: Toxic.

R-Phrases: R 61

May cause harm to the unborn child.

S-Phrases: S 53-45

Avoid exposure - obtain special instructions before use.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Chemical name: Sodium azide (> 0,1 %)

Indication of danger: T<sup>+</sup>, N

Classification: Very toxic, Dangerous for the environment

R-Phrases: R 28, 32, 50/53

Very toxic if swallowed.

Contact with acids liberates very toxic gas.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-Phrases: S 28, 45, 60, 61

After contact with skin, wash immediately with plenty of soapy water.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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This material and its container must be disposed of as hazardous waste.  
Avoid release to the environment. Refer to special instructions/ Safety data sheets.

## **16 OTHER INFORMATION**

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