

Safety Data Sheet

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

Trade name: -
Product No: -

Version: 1.0/ EN
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Print Date: 10 July 2009
Revision Date: 10 July 2009

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Product name	Product number
AffiSep [®] -WGA column	011031, 011032, 011033, 011034
AffiSep [®] -LCH column	011051, 011052, 011053, 011054
AffiSep [®] -VVL column	011082
AffiSep [®] -AAL column	011091, 011092, 011093
AffiSep [®] -MAL column	011131, 011132, 011133, 011134
AffiSep [®] -UEA column	011141, 011142, 011143, 011144
AffiSep [®] -GNA column	011151, 011152, 011153, 011154
AffiSep [®] -ECL column	011161, 011162, 011163, 011164
AffiSep [®] -WGA Kit	031031
AffiSep [®] -LCH Kit	031051
AffiSep [®] -VVL Kit	031082
AffiSep [®] -AAL Kit	031091
AffiSep [®] -MAL Kit	031131
AffiSep [®] -UEA Kit	031141
AffiSep [®] -GNA Kit	031151
AffiSep [®] -ECL Kit	031161
AffiSpin [®] -WGA Kit	051031
AffiSpin [®] -LCH Kit	051051
AffiSpin [®] -VVL Kit	051081
AffiSpin [®] -AAL Kit	051091
AffiSpin [®] -MAL Kit	051131
AffiSpin [®] -UEA Kit	051141
AffiSpin [®] -GNA Kit	051151
AffiSpin [®] -ECL Kit	051161
AffiSep [®] -WGA SPE cartridge	061032
AffiSep [®] -LCH SPE cartridge	061052
AffiSep [®] -VVL SPE cartridge	061082
AffiSep [®] -AAL SPE cartridge	061092
AffiSep [®] -MAL SPE cartridge	061132
AffiSep [®] -UEA SPE cartridge	061142
AffiSep [®] -GNA SPE cartridge	061152
AffiSep [®] -ECL SPE cartridge	061162
AffiSep [®] -WGA adsorbent	121031, 121032
AffiSep [®] -LCH adsorbent	121051, 121052
AffiSep [®] -MAL adsorbent	121131, 121132
AffiSep [®] -GNA adsorbent	121151, 121152
AffiSep [®] -ECL adsorbent	121161, 121163

Use of the substance/ preparation: Isolation of glycoproteins using the affinity technique
Company: GALAB Technologies GmbH
Max-Planck-Str. 1
21502 Geesthacht
Germany
Telephone: +49 (0) 4152-889400
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2. HAZARDS IDENTIFICATION

Classification: The preparations are not harmful.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation related information:

1. The lectins WGA(*Wheat germ agglutinin*), LCH (*Lens culinaris hemagglutinin*), VVL (*Vicia villosa lectin*), AAL (*Aleuria aurantia lectin*), MAL (*Maackia amurensis agglutinin*), UEA (*Ulex europaeus agglutinin*), GNA (*Galanthus nivalis agglutinin*) und ECL (*Erithrina cristagalli lectin*) are immobilised onto insoluble particles, suspension in bis-tris buffered saline, pH 6.0
2. Bis-Tris buffered solution, pH 6.0, containing sodium azide (Adsorption and Elution Buffer)

Hazard ingredients:

Chemical name	CAS-No.	EC-number	Content [%]	Classification		
				Symbol	R-Set	S-Set
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

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 mainly packed in plastic material.

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 solid in a convenient waste disposal container.

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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: To avoid formation of dust, do not open the column and take out the adsorbent (011031, 011032, 011033, 011034, 011051, 011052, 011053, 011054, 011082, 011091, 011092, 011093, 011131, 011132, 011133, 011134, 011141, 011142, 011143, 011144, 011151, 011152, 011153, 011154, 011161, 011162, 011163, 011164, 031031, 031051, 031082, 031091, 031131, 031141, 031151, 031161, 051031, 051051, 051081, 051091, 051131, 051141, 051151, 051161, 061032, 061052, 061082, 061092, 061132, 061142, 061152, 061162).

To avoid formation of dust, always work on with the adsorbent in suspension (121031, 121032, 121051, 121052, 121131, 121132, 121151, 121152, 121161, 121163).

Do not dry out the adsorbent. Working temperature can be from 4-20 °C.

Further information: Eluted fractions enriched by e.g. lyophilisation will also result in a higher concentration of sodium azide.

Storage: Store at 4 °C. Keep the adsorbent in buffer containing a preservative.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment: Provide exhaust ventilation.

Respiratory protection: Where dry adsorbent appears, 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: suspension

Colour: white

Odour: no data available

Safety relevant basis data

pH (20 °C): 6,0

Water solubility (20 °C in g/ L): water insoluble

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: Carbon monoxide, carbon dioxide, nitrogen oxides

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: no data available

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Sensitization: May cause allergic reaction.

In case of skin contact: May cause sensitization by skin contact.

In case of inhalation: May cause sensitization of the 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: Sodium azide (> 0,1 %)

Indication of danger: T⁺, 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).

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

Disclaimer: The information herein is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. GALAB Technologies GmbH makes no representation, warranty or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information. The information does not purport to be all inclusive and shall be used only as a guide. GALAB shall not be held liable for any damage resulting from handling or from contact with any damage resulting from handling or from contact with the above product.

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Product name	Product number
Adsorption Buffer Bis-Tris, pH 6.0	091180
WGA Elution Buffer B1	101033
ConA Elution Buffer B1/ B2	101043/ 101046
LCH Elution Buffer B1	101053
AAL Elution Buffer B1	101092
MAL Elution Buffer B1	101133
UEA Elution Buffer B1	101142
GNA Elution Buffer B1	101153
ECL Elution Buffer B1	101182, 101183

Use of the substance/ preparation: Adsorption, Wash and Regeneration Buffer/ Elution Buffer
Company: GALAB Technologies GmbH
Max-Planck-Str. 1
21502 Geesthacht
Germany
Telephone: +49 (0) 4152-889400
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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 organisms.

Information pertaining to special dangers for human and 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:

1. Bis-Tris buffer, pH 6.0

Hazard ingredients:

Chemical name	CAS-No.	EC-No.	Content [%]	Classification		
				Hazards characteristics	R-Set	S-Set
[bis(2-Hydroxyethyl)imino]-tris(hydroxymethyl)methane free base	6976-37-0	230-237-7	4,2	Xi	36/37/38	26-36
CaCl ₂ * 2H ₂ O	10035-04-8	233-140-8	1,3	Xi	36	26
MnCl ₂ * 4H ₂ O	13446-34-9	231-869-6	1,6	Xn	22-52	-
ZnCl ₂	7646-85-7	231-592-0	0,55	-	-	-

Additional information:

Corrosive and environmentally hazardous substances < 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.

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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 or waistband.

5. FIRE-FIGHTING MEASURES

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

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 solid 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. Avoid formation of dust. Transfer salts in a ventilated hood dust-reduced to an appropriate vessel and fill it up to the specified volume. Working temperature can be from 4 to 20 °C.

Storage: Store at 20 °C. Unresolved salts can be stored at 20 °C. Dissolved salts should contain a preservative and can also be stored at 20 °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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state: solid, crystalline
Colour: white, white-yellow
Odour: no data available

Safety relevant basis data
pH (20 °C): 6,0

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.

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: [bis(2-Hydroxyethyl)imino]-tris(hydroxymethyl)methane free base

Indication of danger: Xi

Classification: Irritant

Risk-Phrases : R 36/37/38

Irritating to eyes, respiratory system and skin.

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Safety-Phrases: S 26-36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable and protective clothing.

Chemical name: Calciumchloride Dihydrate

Indication of danger: Xi
Classification: Irritant
Risk-Phrases : R 36
Irritating to eyes.

Safety-Phrases: S 26
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Chemical name : Manganese choride Tetrahydrate
Indication of danger: Xn

Classification: Harmful
Risk-Phrases : R 22-52
Harmful if swallowed.
Harmful to aquatic organisms.

Chemical name : Zinc chloride (> 1 %)
Indication of danger: C, N
Classification: Corrosive, Dangerous for the environment
Risk-Phrases : R 22, 34, 50/53
Harmful if swallowed
Causes burns
Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety-Phrases: S 26-36/37/39-45-60-61
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
Wear suitable protective clothing, gloves and eye/face protection
In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
This material and/or its container must be disposed of as hazardous waste
Avoid release to the environment. Refer to special instructions safety data Sheet

16 OTHER INFORMATION

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GALAB Technologies GmbH

Safety Data Sheet

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Trade name: Carbohydrate standard
Product No: -

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

Product name: Carbohydrate standard
Product number: 081010, 081020, 081030, 081050, 081060, 081070
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/www.galab.de
Emergency Phone: +49 (0) 4152-889400 (Mo - Fr 09.00 – 17.00)

2. HAZARDS IDENTIFICATION

Classification: The preparation is non-toxic and not harmful to the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Preparation related information:

1. p-Nitrophenylpyranoside in Bis-Tris buffer, pH 6.0, contains sodium azide

Hazard ingredients:

Chemical name	CAS-No.	EC-No.	Content [%]	Classification		
				Hazards characteristics	R-Set	S-Set
4-Nitrophenyl- β -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

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.

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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. 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. The working temperature can be from 4-20 °C. Do not change the pH of these buffers.

Storage: Store at 4-8 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment: Provide exhaust ventilation.

Respiratory protection: Provide exhaust ventilation.

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 solution

Colour: colourless

Odour: no data available

Safety relevant basis data

pH (20 °C): 6,0

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.

11. TOXICOLOGICAL INFORMATION

Acute effects (toxicity tests): no data available

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Specific symptoms an animal studies: no data available

Irritant and corrosive effects: no data available

Irritation to respiratory tract: no data available

Sensitization: no data available

In case of skin contact: no data available

In case of inhalation: no data available

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- β -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⁺, 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).

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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GALAB Technologies GmbH