

# SAFETY DATA SHEET

According to Regulation (EU) 2015/830

Version: 1.0

Revision Date: 06.06.2020

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Trade name / Substance name	SN Biotinylated Ab
Company product code	47-02
REACH Registration number	A registration number is not available for this substance as the annual tonnage does not require a registration.

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

The uses of the chemical	Laboratory chemicals. Use as a laboratory reagent.
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### 1.3 Details of the supplier of the Safety Data Sheet

Manufacturer	CardiNor AS
Street address	Gaustadalléen 21
Postcode and post office	0349 Oslo, Norway
Telephone number	+47 92254855
E-mail address	dag.chr@cardinor.com

### 1.4 Emergency telephone number

Poisoning Information Center	Finland: 09 471 977 (Myrkytystietokeskus) Netherlands: 030 274 88 88 (Nationaal Vergiftigingen Informatie Centrum) Spain: 91 562 04 20 (Servicio de Información Toxicológica) United Kingdom: 0845 46 47 (NHS Direct in England or Wales) or 08454 24 24 24 (NHS 24 in Scotland, UK only)
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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008 (CLP).

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms:	none
Signal word:	none
Hazard statement(s):	none
Precautionary statement(s):	none
Supplemental Hazard information (EU):	none

### 2.3 Other hazards

None known.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

## 3.2 Mixtures

Hazardous components according to Regulation (EC) No 1272/2008 (CLP):

Component	Classification	Percentage (weight)
<b>Sodium azide</b> CAS No 26628-22-8	Acute Tox. 2: H300 Acute Tox. 2: H330 Acute Tox. 1: H310 STOT RE 2: H373 Aquatic Acute 1: H400 Aquatic Chronic 1: H410	< 0.1 %

For full text of H-statements: see SECTION 16.

## SECTION 4: FIRST AID MEASURES

## 4.1 Description of first aid measures

General notes:	None.
If inhaled:	Remove person to fresh air. If symptoms occur, consult a physician.
In case of skin contact:	Rinse with plenty of water. Remove contaminated clothing.
In case of eye contact:	Rinse with plenty of water. If irritation occurs, consult a physician.
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms occur, consult a physician.

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

No relevant information available.

## 4.3 Indication of any immediate medical attention and special treatment needed

No relevant information available.

## SECTION 5: FIREFIGHTING MEASURES

## 5.1 Extinguishing media

Suitable extinguishing media      Water, foam, dry chemical or carbon dioxide

## 5.2 Special hazards arising from the substance or mixture

No relevant information available.

## 5.3 Advice for firefighters

No relevant information available.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

No special precautions required.

## 6.2 Environmental precautions

Dilute with plenty of water.

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

Spillage can be cleaned with water and adsorbent.

**6.4 Reference to other sections**

Instructions for personal protective clothing in Section 8.

Instructions for disposal of the product in Section 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

General occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use.

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

Long-term storage +2...+8 °C.

**7.3 Specific end use(s)**

No relevant information available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Occupational exposure limit values

Sodium azide CAS No 26628-22-8	Limit value				National legislation or other provision which gives rise to the limit
	8 h		Short term (15 min)		
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Finland	not available	0,1	not available	0,3	Sosiaali- ja terveysministeriön asetus haitallisiksi tunnetuista pitoisuuksista (1214/2016)
Norway	not available	0,1	not available	0,3	Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier)

**8.2 Exposure controls**

Appropriate engineering controls	Good occupational hygiene practices
Eye / face protection	Protective glass
Skin protection	Work clothing appropriate for laboratory work if splash potential exists
Hand protection	Disposable gloves if spill or splash potential exists
Respiratory protection	Not needed when operating in normal laboratory scale
Thermal hazards	Not applicable
Environmental exposure controls	Not needed when operating in normal laboratory scale

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance Colourless, clear liquid

Odour	No data available
Odour threshold	No data available
pH	7.6–7.9 (at 20 °C)
Melting point/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	No data available
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	Not relevant
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not relevant
Oxidising properties	No data available

## 9.2 Other information

No relevant information available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No known hazardous reactions.

### 10.2 Chemical stability

No known hazardous reactions.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

No relevant information available.

### 10.5 Incompatible materials

No relevant information available.

### 10.6 Hazardous decomposition products

No known decomposition products.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity	<p>For the mixture: based on available data, the classification criteria are not met.</p> <p><i>Sodium azide:</i>  <i>Acute oral toxicity: LD50 rat: 27 mg/kg (RTECS).</i>  <i>Acute inhalation toxicity: LC50 rat: 0,054–0,52 mg/l, exposure time 4 h, test atmosphere dust/mist (US-EPA, ECHA).</i>  <i>Symptoms: Inhalation may lead to the formation of oedemas in the respiratory tract. Symptoms may be delayed.</i>  <i>Acute dermal toxicity: LD50 rabbit: 20 mg/kg (ECHA).</i></p>
Skin corrosion/irritation	<p>For the mixture: based on available data, the classification criteria are not met.</p> <p><i>Sodium azide:</i>  <i>No skin irritation (ECHA).</i></p>
Serious eye damage/irritation	<p>For the mixture: based on available data, the classification criteria are not met.</p> <p><i>Sodium azide:</i>  <i>No eye irritation (OECD 437).</i></p>
Respiratory or skin sensitisation	<p>For the mixture: based on available data, the classification criteria are not met.</p> <p><i>Sodium azide:</i>  <i>Sensitisation test result negativa (mouse, dermal, OECD 429).</i></p>
Germ cell mutagenicity	<p>For the mixture: based on available data, the classification criteria are not met.</p>
Carcinogenicity	<p>For the mixture: based on available data, the classification criteria are not met.</p>
Reproductive toxicity	<p>For the mixture: based on available data, the classification criteria are not met.</p>
STOT-single exposure	<p>For the mixture: based on available data, the classification criteria are not met.</p>
STOT-repeated exposure	<p>For the mixture: based on available data, the classification criteria are not met.</p>
Aspiration hazard	<p>For the mixture: based on available data, the classification criteria are not met.</p>
Other information	<p>For the mixture: based on available data, the classification criteria are not met.</p> <p><i>Sodium azide:</i>  <i>Systemic effects: Dizziness, headache, nausea, vomiting, cough, shortness of breath, CNS disorders, convulsions, circulatory collapse, collapse, unconsciousness, tachycardia, drop in blood pressure. Other dangerous properties can not be excluded. This substance should be handled with particular care.</i></p>

## SECTION 12: ECOLOGICAL INFORMATION

## 12.1 Toxicity

For the mixture: No relevant information available.

*Sodium azide:* *Toxicity to fish: LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,7 mg/l; 96 h (ECOTOX Database). Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia pulex (Water flea)): 4,2 mg/l; 48 h (ECOTOX Database). Toxicity to algae/aquatic plants:*

*IC50 (mixed culture of green algae): 272 mg/l; (Lit.). Toxicity to micro-organisms: EC50 (Photobacterium phosphoreum): 38,5 mg/l; (Lit.).*

#### 12.2 Persistence and degradability

For the mixture: No relevant information available.

#### 12.3 Bioaccumulative potential

For the mixture: No relevant information available.

*Sodium azide:*

*Partition coefficient: n-octanol/water log Pow: 0.3 OECD Test Guideline 117. Bioaccumulation is not expected.*

#### 12.4 Mobility in soil

For the mixture: No relevant information available.

#### 12.5 Results of PBT and vPvB assessment

This mixture contains no components considered to be either PBT or vPvB.

#### 12.6 Other adverse effects

For the mixture: No relevant information available.

*Sodium azide:*

*Biological effects: Forms toxic mixtures in water, dilution measures notwithstanding. Herbicide. Nematocidal effect. Discharge into the environment must be avoided.*

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Product / Packaging disposal	Small amounts of product can be disposed of to the sewer system if rinsed with plenty of water. Package can be rinsed with water and disposed as burnable waste.
Waste treatment-relevant information	Waste treatment in compliance with local and national regulations.
Sewage disposal-relevant information	Large amount of product must not be disposed of to the sewer.
Other disposal recommendations	No relevant information available.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

Not applicable.

#### 14.2 UN proper shipping name

Not applicable.

#### 14.3 Transport hazard class(es)

Not applicable.

#### 14.4 Packing group

Not applicable.

- 14.5 Environmental hazards**  
Not applicable.
- 14.6 Special precautions for user**  
Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**  
Product is not intended to be transported in bulk.

#### SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No need for additional information.
- 15.2 Chemical safety assessment**  
Chemical safety assessment has not been made for this product.

#### SECTION 16: OTHER INFORMATION

Indication of changes	New safety data sheet
Abbreviations and acronyms	LD50: lethal dose, 50 % LC50: lethal concentration, 50 % PBT: persistent, bioaccumulative and toxic vPvB: very persistent and very bioaccumulative MARPOL: International Convention for the Prevention of Pollution from Ships IBC: International Bulk Chemical
Relevant statements	H300 Fatal if swallowed. H310 Fatal in contact with skin. H330 Fatal if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Training advice for workers	Follow the instructions of use. End users need to have necessary information, advice, and instructions available.
Disclaimer	The above information is believed to be correct based on our current knowledge. They are believed to be correct at the date of publishing but they are mentioned as guidelines and do not absolutely guarantee all properties of the product. Information above is not legally binding and CardiNor AS is not responsible for any harm related to use or handling of the product.