

# Safety Data Sheet

## NycoCard™ HbA1c

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 01/06/2019 Supersedes: 24/04/2019 Version: 6.0

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

#### 1.1. Product identifier

Product name : NycoCard™ HbA1c

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

##### Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : In Vitro Diagnostic Medical Device.

##### Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Abbott Diagnostics Technologies AS  
Kjelsåsveien 161, P.O. Box 6863 Rodeløkka  
NO-0504 Oslo - Norway  
T +47-24056000 - F +47-24056010  
[alereotech.no@alere.com](mailto:alereotech.no@alere.com) - [www.abbott.com/poct](http://www.abbott.com/poct)

##### Manufacturer

Abbott Diagnostics Technologies AS  
Kjelsåsveien 161, P.O. Box 6863 Rodeløkka  
NO-0504 Oslo - Norway  
T +47-24056000 - F +47-24056010  
[alereotech.no@alere.com](mailto:alereotech.no@alere.com) - [www.abbott.com/poct](http://www.abbott.com/poct)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.  
Extra phrases : In vitro diagnostic medical devices, regulation 1272/2008/EC, article 1, paragraph 5d.

#### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.  
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
morpholine	(CAS-No.) 110-91-8 (EC-No.) 203-815-1 (EC Index-No.) 613-028-00-9 (REACH-no) 01-2119496057-30	< 0.5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
zinc chloride	(CAS-No.) 7646-85-7 (EC-No.) 231-592-0 (EC Index-No.) 030-003-00-2 (REACH-no) 01-2119472431-44	< 0.25	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Triton X (poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxy-) substance listed as REACH Candidate (4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]) substance listed in REACH Annex XIV (4-(1,1,3,3-Tetramethylbutyl) phenol, ethoxylated (covering well-defined substances and UVCB substances, polymers and homologues))	(CAS-No.) 9036-19-5 (REACH-no) N/A	<= 0.12	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411
<b>Specific concentration limits:</b>			
<b>Name</b>	<b>Product identifier</b>	<b>Specific concentration limits</b>	
zinc chloride	(CAS-No.) 7646-85-7 (EC-No.) 231-592-0 (EC Index-No.) 030-003-00-2 (REACH-no) 01-2119472431-44	( 5 =<C < 100) STOT SE 3, H335	

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: No specific first aid measures noted.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Immediately flush with plenty of water or eyewash solution for up to 10 minutes. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Drink a few glasses of water or milk. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: Liquid splashes in the eye may cause irritation.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical attention.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None to our knowledge.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Non flammable.
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### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper personal protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Wear appropriate personal protective equipment - see Section 8.
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#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup and emergency crew with proper protection.
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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with adsorbent material. Place in suitable container for prompt disposal. Label the container as to the potential infectious hazard. Spill areas can be decontaminated with 0.5% sodium hypochlorite, e.g. a fresh 1:10 dilution of common household bleach.

### 6.4. Reference to other sections

See section 13 for waste handling. For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wear appropriate personal protective equipment - see Section 8.

### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials : Sources of ignition. Direct sunlight.  
Storage temperature : < 25 °C

### 7.3. Specific end use(s)

For professional use only.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

zinc chloride (7646-85-7)		
United Kingdom	Local name	Zinc chloride
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> fume
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> fume
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

morpholine (110-91-8)		
United Kingdom	Local name	Morpholine
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	20 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide eyewash station.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves. Latex. Layer thickness : 0,10mm. Breakthrough time : >480 min. STANDARD EN 374.

#### Eye protection:

Not necessary under the recommended storage and handling conditions. Use splash goggles when eye contact due to splashing is possible. STANDARD EN 166.

#### Skin and body protection:

Lab coat.

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### Respiratory protection:

Respiratory protection not applicable.

### Other information:

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Reagent: Blue. Washing Solution: Colourless.
Odour	: Mild (or faint).
Odour threshold	: No data available
pH	: 8 - 9.3
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 1 g/cm <sup>3</sup>
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non flammable.
Explosive limits	: No data available

### 9.2. Other information

Additional information : None to our knowledge.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Avoid strong heating. Protect against frost.

### 10.5. Incompatible materials

None to our knowledge.

### 10.6. Hazardous decomposition products

No decomposition if stored and used normally.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

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Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

dimethyl sulphoxide (67-68-5)	
LD50 oral rat	14500 mg/kg
LD50 dermal rat	40000 mg/kg

zinc chloride (7646-85-7)	
LD50 oral rat	1100 mg/kg OECD401

morpholine (110-91-8)	
LD50 oral rat	1050 mg/kg
LD50 dermal rat	1050 mg/kg
LC50 inhalation rat (mg/l)	29 mg/l/4h

Skin corrosion/irritation : Not classified  
pH: 8 - 9.3

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified  
pH: 8 - 9.3

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

dimethyl sulphoxide (67-68-5)	
LC50 fish 1	40000 mg/l

zinc chloride (7646-85-7)	
LC50 fish 1	0.169 mg/l (96 hours - Rainbow trout)
EC50 Daphnia 1	0.33 mg/l (48 hours - Daphnia magna)
ErC50 (algae)	0.0049 mg/l (96 hours - Pseudokirchneriella subcapitata)

morpholine (110-91-8)	
LC50 fish 1	180 - 380 mg/l (96 hours - Rainbow trout)
EC50 Daphnia 1	< 100 mg/l
ErC50 (algae)	80 mg/l (EC50, 72 hours - Selenastrum capricornutum)

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Triton X (poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3- tetramethylbutyl)phenyl]-omega-hydroxy-) (9036-19-5)	
Additional information	Triton X is on the REACH Annex XIV List

### 12.2. Persistence and degradability

NycoCard™ HbA1c	
Persistence and degradability	Biodegradability in water: no data available.

morpholine (110-91-8)	
Biodegradation	93 % (25 days, method: OECD 301E)

### 12.3. Bioaccumulative potential

NycoCard™ HbA1c	
Bioaccumulative potential	Bioaccumulation unlikely.

zinc chloride (7646-85-7)	
Bioconcentration factor (BCF REACH)	2000
Log Pow	> 3

morpholine (110-91-8)	
Bioconcentration factor (BCF REACH)	< 2.8
Log Pow	-0.83

Triton X (poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3- tetramethylbutyl)phenyl]-omega-hydroxy-) (9036-19-5)	
Bioconcentration factor (BCF REACH)	2.39
Log Pow	4.86

### 12.4. Mobility in soil

NycoCard™ HbA1c	
Ecology - soil	No data available.

### 12.5. Results of PBT and vPvB assessment

NycoCard™ HbA1c	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Component	
Triton X (poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3- tetramethylbutyl)phenyl]-omega-hydroxy-) (9036-19-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Other adverse effects : None to our knowledge.  
Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose of contents/container in accordance with licensed collector's sorting instructions. Used device to be handled as infectious.  
Additional information : The given LoW-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.  
Ecology - waste materials : Avoid release to the environment.  
European List of Waste (LoW) code : 18 01 03\* - wastes whose collection and disposal is subject to special requirements in order to prevent infection

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

Special transport precautions : No particular precautions.

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### EU Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] (CAS 9036-19-5)

Contains REACH Annex XIV substances: 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] (CAS 9036-19-5)

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### National regulations

EU-regulation 2015/830, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	

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SDS ID : 301451

Data sources : EU-regulation 2015/830, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.