



1.1.

2.1



MSDS - Material Safety Data Sheet

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# Celiac IgA

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

Product Identifier	
Product Name:	BlueDiver Dot Celiac IgA
Product Code:	ENDADIV-24
UFI:	N/A

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

Immunodot kit (professional IVD use only, automated on the *BlueDiver Instrument*) for the detection of IgA antibodies to the antigens d-Gliadin and tTG in human serum.

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

#### D-tek s.a

Parc Initialis, rue René Descartes 19 BE-7000 Mons Belgium Tel.: +32 65 841 888 Website: www.d-tek.be email: info@d-tek.be

## **1.4.** Emergency telephone number

Please refer to your local Anti-Poison Centre or contact the European Chemicals Agency (ECHA): website <u>https://poisoncentres.echa.europa.eu/appointed-bodies</u>; tel: +358-9-686180.

#### **SECTION 2. Hazards identification**

# Classification of the substance or mixture

According to Regulation (EC) N° 1272/2008 the preparation is not classified as dangerous.

## 2.2 Label elements

According to Regulation (EC) N° 1272/2008: none; according to concentration and/or conditioning: none.

#### 2.3 Other hazards

The mixture is for professional use only and does not come into contact with the patient. The professional user has to observe the precautions for safe handling given in 7.1. The criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative effects do not apply. Neither does the mixture have endocrine disrupting properties.

The product components contain preservatives which may possess in their given concentration skin-sensitizing and slightly polluting properties. As any chemicals contain specific hazards, the products / product components should only be handled by appropriately trained personnel and with the necessary precautions for chemicals.

# SECTION 3. Composition/information on ingredients

3.1 Substances

N/A (see hereunder: mixture)

#### 3.2 Mixtures

# Abbreviations in alphabetic order:

AP = Alkaline Phosphatae; BCIP = Bromo-Chloro-Indolyl-Phosphate; BSA = Bovine Serum Albumin; KCI = Potassium Chloride;  $MgCl_2 = Magnesium Chloride; MIT = MethylIsoThiazolone (preservative); NaCl = Sodium Chloride; NaN<sub>3</sub>= Sodium Azide; NBT = NitroBlue Tetrazolium; TBS = Tris Buffer Saline$ 

Contents	Quantity	Ingredients			
1. Cartridge	24 units having each 7 con	npartments (Position I to VII); sealed, containing:			
Sample Buffer	Position I, 1 x 1,4 mL (yellow)	H <sub>2</sub> O, TBS, NaCl, Tween, BSA, MIT, Dye, antifoam emulsion			
Wash Buffer WASH	Position II, III, IV, VI, 1 x 1,4 mL (colourless)	H <sub>2</sub> O, TBS, NaCl, Tween, MIT, antifoam emulsion			
Conjugate CONJ IgA	Position V, 1 x 1,4 mL (green)	H <sub>2</sub> O, TBS, NaCl, KCl, MgCL <sub>2</sub> , AP-conjugated goat anti-human IgA, MIT, Dye, antifoam emulsion			
Substrate SUB	Position VII, 1 x 1,4 mL (pale yellow)	$H_2O$ , NaN <sub>3</sub> (0.05 %), MgCL <sub>2</sub> , TBS, NBT, BCIP, NBT Stabilizer			
2. Strips	3 x 8 units on plastic supp	stic supports, breakable individually; sealed			
Membrane Strip STRIP	4 dots on each: 1 positive control (C+) 2 antigens 1 negative control (C-)	Membrane (cellulose nitrate), coated with the antigens: <b>d-Gliadin</b> (recombinant, human) and <b>tTG</b> (recombinant human)			





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## Hazardous Substances and their concentrations

The Hazard Classification listed in this section refers to the chemical at **a pure concentration**. It has been determined that the remaining ingredient(s) of these components are <u>not</u> classified as hazardous chemicals due to their physical and/or chemical nature and/or concentration in solution (see concentration here in the table) and/or their conditioning.

#### Abbreviations and significances:

CAS: Chemical Abstract Service (division of the American Chemical Society) EINECS: European Inventory of Existing Commercial Chemical Substances STOT RE: Specific target organ toxicity (repeated exposure)

Information on significance H Phrases: see Section16

Name	CAS	EINECS	Concentration in strip	Classification according to Regulation EC 1272/2008 Significance H Phrases
Cellulose Nitrate	9004-70-0	-	< 5 %	Flam. Sol. 1 H228

Annex VI to Regulation (EC) No 1272/2008: Index N°: 603-037-00-6; Commission Regulation (EU) 2015/830; 3.2.1

•	entrated form) g to Regulation /2008 nce
Eye Dam. Skin Sens. 0,0015% A Aquatic	. 2 H310
mi	

Name	CAS	EINECS	Concentration in mixture	Classification (in concentrated form) according to Regulation EC 1272/2008 Significance H Phrases
NaN₃	26628-22-8	247-852-1	< 0.1 %	Acute tox. 2 H300 Acute tox. 1 H310 STOT RE 2 H373 Aquatic acute 1
				H400 Aquatic chronic, 1 H410

Annex VI to Regulation (EC) No 1272/2008: Index Number: 011-004-00-7; Commission Regulation (EU) 2015/830; 3.2.1

Name	CAS	EINECS	Concentration in mixture	Classification (in concentrated form) according to Regulation EC 1272/2008 Significance H Phrases
NBT	298-83-9	206-067-4	< 0,01%	Acute tox. 4 H302





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SECTION 4. 4.1	First aid measur Description of fi Contact with eyes Contact with skin: Ingestion:	rst aid measures			
4.2	Most important Contact with eyes Contact with skin: Ingestion:				
4.3	If person unconscio	<b>y immediate medical attention and special treatment needed</b> bus or symptoms do not fade, seek medical advice by showing this document. give anything by mouth to an unconscious person and never try to make an unconscious person vomit.			
SECTION 5. 5.1	ingredients).				
5.2	Special hazards None	arising from the substance or mixture			
5.3	Advice for firefig Do not enter any	enclosed or confined fire space without proper protective equipment. This may include self- ng apparatus to protect against the hazardous effects of the normal products of combustion or			
SECTION 6. 6.1	6. Accidental release measures Personal precautions, protective equipment and emergency procedures Always observe GLP (Good Laboratory Practice) safety lines. To avoid contact with skin and eyes wear approtective clothing. Do not swallow, do not pipette by mouth.				
6.2	Environmental Precautions Avoid flushing away in drains; keep away from surface- and ground-water; keep away from soil.				
6.3		thods and material for containment and cleaning up eep up and collect in appropriate containers for waste disposal; clean the floor and all other contaminated ects with water.			
6.4	<b>Reference to oth</b> N/A	ner sections			
SECTION 7. 7.1	<b>Precautions for</b> Always observe G 8.2). Wash hands leaving workplace				
7.2	Always store the p	afe storage, including any incompatibilities product according to instructions given on the label. iven temperature and humidity limit/range.			
7.3	<b>Specific end use</b> N/A	e(s)			
SECTION 8. 8.1	Exposure contro Control paramet	ols/personal protection ters			
	Name	Comment			
	Cellulose Nitrate	Contains no substances with occupational exposure limit values nor with short term exposure limit			
	MIT	Contains no substances with occupational exposure limit values nor with short term exposure limit			
	NaN <sub>3</sub>	TWA value 0,1 mg/m <sup>3</sup> (in EU); STEL: 0,3 mg/m <sup>3</sup> (in EU)			
	NBT	Contains no substances with occupational exposure limit values nor with short term exposure limit			
	Values according to D	irective 98/24/EC + Article 2(3) of Commission Decision 2014/113/EU			

TWA: Time Weighted Average, i.e. the average exposure to a contaminant to which workers may be exposed without adverse effect over a period such as in an 8-hour day or 40-hour week (an average work shift). They are usually expressed in units of ppm (volume/volume) or mg/m<sup>3</sup>.

STEL: Short Term Exposure Limit; i.e. the acceptable average exposure over a short period of time, usually 15 minutes as long as the time-weighted average is not exceeded.





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#### 8.2 Exposure controls

Respiratory protection: None		
Gloves:	Laboratory nitrile or latex gloves	
Eye protection:	Goggles	
Skin protection	Laboratory coat	

## SECTION 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

	Kit Reagent						
		STRIP	DIL	WASH	CONJIgA	SUB	
a)	Physical state	Solid (fibrous sheet)	Liquid reagent	Liquid reagent	Liquid reagent	Liquid reagent	
b)	Colour	white to yellow	yellow	colourless	green	pale yellow	
c)	Odour:	None	Negligible	Negligible	Negligible	Negligible	
d)	Melting point/freezing point:	Decomposes	Not given Not given		Not given	Not given	
e)	Boiling point or initial boiling point and boiling range	Not given	Not given	Not given	Not given	Not given	
f)	Flammability:	Yes, if exposed to: flames, sparks, shocks, static discharge, acids	N/A	N/A	N/A	N/A	
g)	Lower and upper explosion limit	N/A	Not explosive	Not explosive	Not explosive	Not explosive	
h)	Flash point:	N/A	N/A	N/A	N/A	N/A	
i)	Auto-ignition temperature:	185°C	Not given	Not given	Not given	Not given	
j)	Decomposition temperature:	Not given	Not given	Not given	Not given	Not given	
k)	pH value:	Not given	Not given	Not given	Not given	Not given	
I)	Kinematic viscosity:	Not given	Not given	Not given	Not given	Not given	
m)	Solubility:	Insoluble in water	Completely soluble	Completely soluble	Completely soluble	Completely soluble	
n)	Partition coefficient n-octanol/ water (log value):	Not given	Not given	Not given	Not given	Not given	
o)	Vapour pressure:	Not given	Not given	Not given	Not given	Not given	
p)	Density and/ or relative density	Not given	Not given	Not given	Not given	Not given	
q)	Relative vapour density:	Not given	Not given	Not given	Not given	Not given	
r)	Particle characteristics	N/A	N/A	N/A	N/A	N/A	

# 9.2 Other information

N/A

# SECTION 10. Stability and reactivity

10.1 Reactivity

Particular dangerous reactions not known

## **10.2** Chemical stability

Materials to avoid: None.

Chemical stability: If storage conditions and expiry date are correctly observed, the mixture / product components are chemically stable.







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## **10.3** Possibility of hazardous reactions

NaN<sub>3</sub> (in <u>high</u> concentrations) reacts with heavy metals such as copper or lead and forms explosive compounds.

# 10.4 Conditions to avoid

Avoid inappropriate storage (temperature, humidity, light, etc). Avoid inappropriate use.

#### 10.5 Incompatible materials

Acids, alkalis and solvents may adversely affect the functionality of the liquid reagents. Oxidizing materials may adversely affect the functionality of cellulose nitrate.

### **10.6** Hazardous decomposition products

Under appropriate storage conditions and correct handling of the mixtures / product components, hazardous decomposition products are not known.

Combustion of cardboard inserts inside the kit and of the outer cardboard box of the kit does <u>not</u> liberate toxic gas (only carbon dioxide and water vapour).

#### **SECTION 11. Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### a. Acute toxicity

Ingredient	Measured quantity	Value	Species	
Cellulose Nitrate	LD <sub>50</sub> (oral)	3200 mg/kg	Rat	
MIT	LD <sub>50</sub> (oral)	-	-	
NaN <sub>3</sub>	LD <sub>50</sub> (oral)	27 mg/kg	Rat	
NBT	LD <sub>50</sub> (oral)	2000 mg/kg	Mouse	

 $LD_{50}$  test: Lethal dose for 50% of the population of test animals

- **b.** Skin corrosion/irritation No skin corrosion or irritation known
- c. Serious eye damage/irritation No eye damage or irritation known
- d. Respiratory or skin sensitisation No respiratory or skin sensitisation known
- e. Germ cell mutagenicity No data available
- f. Carcinogenicity No data available
- g. Reproductive toxicity No data available
- h. STOT-single exposure No data available

#### i. STOT-repeated exposure

Ingredient	STOT-repeated exposure	Comment
Cellulose Nitrate	N/A	-
MIT	N/A	-
NaN <sub>3</sub>	May cause damage to brain	N/A, low concentration in mixture (0.1 %)
NBT	N/A	-

# j. Aspiration hazard

# No data available

# **11.2** Information on other hazards

N/A (no endocrine disrupting properties)





# **SECTION 12. Ecological information**

# 12.1 Toxicity

Ingredient	Toxicity for algae	Toxicity daphnia	for	Toxicity for fish	Toxicity for microorganisms
Cellulose Nitrate	Acute EC₅0: 579000 µg/l – 96 h Fresh water	-		-	-
MIT	-	-		-	-
NaN <sub>3</sub>	EC50=0.35 mg/L - 96 h Pseudokirchneriella subcapitata	-		LC50=5.46 mg/L - 96 h Pimephalespromelas	-
NBT	-	-		-	-

 $LC_{50}$  test: (Lethal Concentration 50) Standard measure of the toxicity of the surrounding medium that will kill 50 % of the sample population in a specified period through exposure via inhalation (respiration). LC50 is measured in micrograms (or milligrams) of the material per liter, or parts per million (ppm), of air or water.

 $EC_{50}$  static test: (Effective Concentration 50) Concentration of test substance in dilution water that is calculated to effect 50 percent of a test population during continuous exposure over a specified period of time.

#### 12.2 Persistence and degradability

Ingredient	Measured quantity	Value	Comment
Cellulose Nitrate	No data available	-	-
MIT	No data available	-	-
NaN <sub>3</sub>	No data available	-	-
NBT	No data available	-	-

#### **12.3 Bioaccumulative potential** No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPVB assessment

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **12.6 Endocrine disrupting properties**

This mixture contains no components considered to have endocrine disrupting properties.

# 12.7 Other adverse effects

Ingredient	Effect <u>in pure form*</u>	
Cellulose Nitrate	none	
MIT	Toxic to aquatic life	
NaN <sub>3</sub>	Very toxic to aquatic life with long lasting effects	
NBT	No data available	

\*) The reagents in D-tek's kits are mixtures. Due to the very low concentration of toxic substances in the mixture, the handling and use of them do not lead to ecological problems.

# SECTION 13. Disposal considerations

#### 13.1 Waste treatment methods

Emptied cartridges and used strips may retain product residues: always handle as if they were full.

Humidify cellulose nitrate before disposal.

Chemical waste cannot be disposed of with household garbage: please contact a licensed professional waste disposal service to dispose of this material.

The waste generated by chemical preparations has generally to be regarded as special waste material, and is in most countries regulated by federal or state government laws and ordinances. Please contact the authority in the matter.

#### Disposal of the packaging

Disposal always according to official regulations: please contact the authority in the matter.



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## **MATERIAL SAFETY DATA SHEET**



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	UN	ansport information I Number or ID number A: The products are not subject to transport regulations.	
14.2	UN	I proper shipping name A: The products are not subject to transport regulations.	
14.3		ansport hazard class(es) A: The products are not subject to transport regulations.	
14.4		<b>cking group</b> A: The products are not subject to transport regulations.	
14.5		vironmental hazards A: The products are not subject to transport regulations.	
14.6	Special precautions for user N/A: The products are not subject to transport regulations.		
14.7		aritime transport in bulk according to IMO instruments A: The products are not subject to transport regulations.	
ON 15. 15.1	Sa	gulatory information fety, health and environmental regulations/legislation specific for the substance or mixture e user has to observe the applicable regulations.	
	•	<b>Commission Regulation (EU) 2020/878</b> amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	
	•	Commission Regulation (EU) 2018/1881(2) amending Annexes I, III and VI to XII to Regulation (EC) No 1907/2006	
	•	<b>Commission Regulation (EU) N° 2015/830</b> amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)	
	•	<b>Regulation (EC) N° 1907/2006 of the European Parliament and of the Council</b> concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC (classification, packaging and labelling of dangerous preparations) and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.	
	•	<b>The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)</b> developed in the framework of the United Nations, setting out internationally harmonised criteria for the classification and labelling of chemicals and rules on safety data sheets	
	•	COM(2018) 734 - COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS towards a comprehensive European Union framework on endocrine disruptors	
	•	<b>Regulation (EC)</b> N° <b>1272/2008 of the European Parliament and of the Council</b> on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006	
	•	<b>Commission Regulation (EU) N° 453/2010</b> amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)	
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# 15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

# SECTION 16. Other information

The present MSDS has been compiled according to Commission Regulation (EU) 2020/878 of 18 June 2020. REGULATION (EU) 2020/878 replaces

Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)





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Full text of hazard phrases mentioned in this document:

Hazard phrases		
Code	Phrase	
H228	Flammable solid	
H300	Fatal if swallowed	
H301	Toxic if swallowed	
H302	Harmful if swallowed	
H310	Fatal in contact with skin	
H311	Toxic in contact with skin	
H314	Causes severe skin burns and eye damage	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H330	Fatal if inhaled	
H331	Toxic 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	

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