

## SAFETY DATA SHEET

In accordance with 1907/2006 Annex II (2015/830) and 1272/2008  
(All references to EU regulations and directives are abbreviated into only the numeric term)

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

#### 1.1. Product identifier

Trade name	Article number	Constituent
<b>Devyser CFTR</b>	8-A101	CFTR mix (4-A246) Start (4-A243) Dilution buffer (4-A245) Index mix (4-A247) Index buffer (4-A258) Index strip A1 (4-A251) Index strip A2 (4-A252) Index strip A3 (4-A253) Start, 48 test (4-A274) Dilution buffer, 96 test (4-A275) Index mix, 48 test (4-A276) Index buffer, 96 test (4-A277) CFTR mix, 48 test (4-A286)
<b>Devyser CFTR RUO</b>	8-A103	CFTR mix (4-A246) Start (4-A243) Dilution buffer (4-A245) Index mix (4-A247) Index buffer (4-A258) Index strip A1 (4-A251) Index strip A2 (4-A252) Index plate A3 (4-A253) Start, 48 test (4-A274) Dilution buffer, 96 test (4-A275) Index mix, 48 test (4-A276) Index buffer, 96 test (4-A277) CFTR mix, 48 test (4-A286)
<b>Devyser HBOC</b>	8-A111	Dilution buffer 4-A245 Index strip A2 4-A252 Index plate A3 4-A253 Index buffer 4-A258 Dilution buffer, 96 test 4-A275 Index buffer, 96 test 4-A277 Start 2 S 4-A280 Index mix S 4-A302 HBOC mix A 4-A311 HBOC mix B 4-A312
		Dilution buffer 4-A245 Index strip A2 4-A252 Index plate A3 4-A253

<b>Devyser HBOC RUO</b>	8-A111-RUO	Index buffer 4-A258 Dilution buffer, 96 test 4-A275 Index buffer,96 test 4-A277 Start 2 S 4-A280 Index mix S 4-A302 HBOC mix A 4-A311 HBOC mix B 4-A312
<b>Devyser RHD</b>	8-A060	RHD Mix (4-A317) RHD Enzyme (4-A318) RHD Pos (4-A290) NTC (4-A292)
<b>Devyser RHD</b>	8-A406	RHD Mix (4-A317) RHD Enzyme (4-A318) RHD Pos (4-A290) NTC (4-A292)

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

**Identified uses** Laboratory chemicals

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

**Producer**

**Company** Devyser AB  
Instrumentvägen 19  
SE-126 53 Hägersten  
Sweden

**Telephone** +46 8-562 158 50

**E-mail** info@devyser.com

## 1.4. Emergency telephone number

Acute cases: Call 112. Request poison information.

## **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1. Classification of the substance or mixture

Upon assessment, this mixture is not classified as hazardous according to 1272/2008.

### 2.2. Label elements

**Hazard pictograms** Not applicable

**Signal words** Not applicable

**Hazard statements** Not applicable

### 2.3 Other hazards

Not indicated.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Article number:	4-A243	4-A252	4-A275	4-A290
	4-A245	4-A253	4-A276	4-A292
	4-A247	4-A258	4-A277	4-A302
	4-A251	4-A274	4-A280	4-A318
Constituent	Classification			Concentration
SODIUM AZIDE				
CAS nr	26628-22-8	Acute Tox 2oral, Acid Tox 1, Aquatic		< 0,1 %
EG nr	247-852-1	Acute 1, Aquatic Chronic 1; M = 1; H300,		
Index nr	011-004-00-7	EUH032, H400, H410		

Article number:	4-A246	4-A311	4-A317
	4-A286	4-A312	
Constituent	Classification		Concentration
SODIUM AZIDE			
CAS nr	26628-22-8	Acute Tox 2oral, Acid Tox 1,	< 0,1 %
	247-852-1	Aquatic	
EG nr	011-004-	Acute 1, Aquatic Chronic 1; M = 1;	< 20 %
Index nr	00-7	H300, EUH032, H400, H410	
DIMETHYL SULFOXIDE			
CAS No	67-68-5		
EC No	200-664-3		

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Generally

In case of concern, or if symptoms persist, call a doctor/physician.

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

#### Upon breathing in

Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical attention.

#### Upon eye contact

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

#### Upon skin contact

Remove clothes which have been splattered.

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

#### Upon ingestion

Rinse nose, mouth and throat with water.

Drink a couple of glasses of water immediately.  
Contact a doctor.

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

No further relevant information available.

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

Symptomatic treatment.  
When contacting a physician, take this SDS with you.

### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **5.1. Extinguishing media**

##### **Recommended extinguishing agents**

Extinguish with materials intended for the surrounding fire.

##### **Unsuitable extinguishing agents**

Among common extinguishing agents there are none that are overtly unsuitable.

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

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

Note that the extinguishing water may contain toxic substances or other hazardous substances.

#### **5.3. Advice for fire-fighters**

Protective measures should be taken regarding other material at the site of the fire.  
In case of fire use a respirator mask.  
Wear full protective clothing.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Keep unauthorized and unprotected people at a safe distance.  
Do not inhale vapours and avoid contact with skin, eyes and clothes when cleaning up the spillage.  
Use recommended safety equipment, see section 8.  
Ensure good ventilation.

#### **6.2. Environmental precautions**

Avoid release to drains, soil or watercourses.

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

Small spills can be wiped up with a cloth or similar. Then flush the spill site with water. Larger spills should first be covered with sand or earth and then be collected. Collected material should be disposed according to Section 13.

#### 6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

### **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Store this product separately from food items and keep it out of the reach of children and pets.  
Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.  
Do not inhale the fumes and avoid exposure to skin, eyes and clothing.  
Do not mix with other products.  
Handle in premises with good ventilation.  
Do not eat, drink or smoke in premises where this product is handled.  
Take off work clothes and protective gear before meals.  
Wash your hands after using the product.

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

Always use sealed and visibly labeled packages.  
Store in a well-ventilated space.  
Store only in the original package.

#### 7.3. Specific end uses

See identified uses in Section 1.2.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

##### 8.1.1. National limit values

##### **SODIUM AZIDE**

##### **United Kingdoms (EH40/2005)**

Time-weighted-average exposure limit (TWA) 0.1 mg/m<sup>3</sup>

Short term exposure limit (STEL) 0.3 mg/m<sup>3</sup>

Note Sk

Explanations of abbreviations are given in Section 16b

##### **DNEL**

No data available.

##### **PNEC**

No data available.

#### 8.2. Exposure controls

In terms of minimizing risks, no special attention is needed for this product besides the general obligations that follow EU directive 89/391 and national occupational legislation.

##### 8.2.1. Appropriate engineering controls

Handle in premises which have modern ventilation standards.

##### **Eye/face protection**

Eye protection should be worn if there is any danger of direct exposure or splashing.

### **Skin protection**

Use suitable protective clothing.

If necessary, use gloves made of neoprene or nitrile (EN 374).

Protective gloves are normally not needed due to the properties of this product, but may be necessary for other reasons, e.g. mechanical risks, temperature conditions or microbiological risks.

### **Respiratory protection**

Protective breathing equipment should only be required in extreme work-situations. Consult the manufacturer if this is the case.

### **8.2.3. Environmental exposure controls**

For limitation of environmental exposure, see Section 12.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

a) Appearance	Not indicated
b) Odour	Not indicated
c) Odour threshold	Not indicated
d) pH	Not indicated
e) Melting point/freezing point	Not indicated
f) Initial boiling point and boiling range	Not indicated
g) Flash point	Not indicated
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	Not indicated
n) Solubility	Not indicated
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

### **9.2. Other information**

No data available

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## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

The product contains no substances which can lead to hazardous reactions at normal use.

### **10.2. Chemical stability**

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and harmful and irritating substances.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

#### Acute toxicity

The criteria for classification cannot be considered fulfilled based on available data.

#### DIMETHYL SULFOXIDE

LD50 rat 24h = 40000 mg/kg Dermally

LD50 rat 24h = 14500 mg/kg Orally

#### SODIUM AZIDE

LD50 rabbit 24h: 50 mg/kg Dermally

LC50 rat 4h: 0.037 mg/L Inhalation

LD50 rat 24h: 27 mg/kg Orally

#### Skin corrosion/irritation

The product is neither corrosive nor irritant.

#### Serious eye damage/irritation

The product is not classified as irritant to the eyes.

#### Respiratory or skin sensitisation

The product is not classified as sensitising.

#### Germ cell mutagenicity

The product is not classified as mutagen.

#### Carcinogenicity

The product is not classified as carcinogenic.

#### Reproductive toxicity

The product is not classified as a reproductive toxicant.

#### STOT-single exposure

The product is not classified for specific organ toxicity after single exposure.

#### STOT-repeated exposure

The product is not classified for specific organ toxicity after repeated exposure.

#### Aspiration hazard

The product is not classified as being toxic for aspiration.

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

The product is not classified as an environmental hazard according to current regulations, but it does contain environmentally hazardous substances in quantities below the labelling limit.

Prevent release on land, in water and drains.

### 12.2. Persistence and degradability

There is no information regarding persistence or degradability.

### **12.3. Bioaccumulative potential**

There is no information regarding bioaccumulation.

### **12.4. Mobility in soil**

Information about mobility in nature is not available.

### **12.5. Results of PBT and vPvB assessment**

No chemical safety report has been executed.

### **12.6. Other adverse effects**

No known effects or hazards.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

#### **Waste handling of the product**

The product is not classified as hazardous waste.

Residual, old or contaminated product should be disposed of at a waste management facility.

Empty, rinsed packaging is sent for recycling where practicable.

See directive 2008/98/EC on waste.

Observe national or regional provisions on waste management.

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## **SECTION 14: TRANSPORT INFORMATION**

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

### **14.1 UN-number**

Not classified as dangerous goods

### **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**

Not applicable

### **14.8 Other transport information**

Not applicable

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## **SECTION 15: REGULATORY INFORMATION**

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

Not indicated.



## 15.2. Chemical safety assessment

An assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

## **SECTION 16: OTHER INFORMATION**

### 16a. Indication of where changes have been made to the previous version of the safety data sheet

#### Revisions of this document

Changes in section(s) 8, 11.

### 16b. Legend to abbreviations and acronyms used in the safety data sheet

#### Full texts for Hazard Class and Category Code mentioned in section 3

Acute Tox 2oral	Acute toxicity (Category 2 oral)
Aquatic Acute 1	Very toxic to aquatic life (Category Acute 1)
Aquatic Chronic 1; M = 1	Very toxic to aquatic life with long lasting effects to aquatic environments (Category Chronic 1)

#### Explanations of the abbreviations in Section 8

##### United Kingdom

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
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#### Explanations of the abbreviations in Section 14

ADR	European Agreement concerning the International Transport of Dangerous Goods by Road
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	The International Air Transport Association

### 16c. Key literature references and sources for data

#### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2020-09-09.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

#### Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006 Annex II (2015/830)	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC 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
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2015/830	COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
1272/2008	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 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
EH40/2005	EH40/2005 Workplace exposure limits
89/391	COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work
1907/2006	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC 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

**16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification**

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I , where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

**16e. List of relevant hazard statements and/or precautionary statements**

**Full texts for hazard statements mentioned in section 3**

H300	Fatal if swallowed
EUH032	Contact with acids liberates very toxic gas
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

**16f. Advice on any training appropriate for workers to ensure protection of human health and the environment**

**Warning for misuse**

This product is not expected to cause severe harm to humans or the environment. However the manufacturer, the distributor or the supplier cannot be responsible for unusual or criminal use of the product.

**Other relevant information**

Not indicated