

## 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**

<b>Trade name</b>	<b>Article number</b>	<b>Constituent</b>
Devyser Complete v2 RUO	8-A011.2-RUO	Devyser Complete v2 Mix 1 RUO (4-A185) Devyser Complete v2 Mix 2 RUO (4-A186) PCR Activator RUO (4-A035)
Devyser Resolution 13 v2 RUO	8-A012.2-13RUO	Resolution 13 v2 RUO (4-A205) PCR Activator RUO (4-A035)
Devyser Resolution 18 v2 RUO	8-A012.2-18RUO	Resolution 18 v2 RUO (4-A206) PCR Activator RUO (4-A035)
Devyser Resolution 21 v2 RUO	8-A012.2-21RUO	Resolution 21 v2 RUO (4-A207) PCR Activator RUO (4-A035)
Devyser Resolution XY v2 RUO	8-A012.2-XYRUO	Resolution XY v2 RUO (4-A208) PCR Activator RUO (4-A035)
Devyser Extend v2 RUO	8-A015.2-RUO	Extend v2 Mix 1 RUO (4-A209) Extend v2 Mix 2 RUO (4-A210) PCR Activator RUO (4-A035)
Devyser Extend M1 v2 RUO	8-A015.2-M1RUO	Extend v2 Mix 1 RUO (4-A209) PCR Activator RUO (4-A035)
Devyser Compact v3 RUO	8-A017.3-RUO	Devyser Compact v3 Mix RUO (4-A189) PCR Activator RUO (4-A035)
Devyser CFTR Core RUO	8-A031-RUO	Core 1 RUO (4-A187) Core 2 RUO (4-A188) PCR Activator RUO (4-A035)
Devyser CFTR Core Plus 1.1	8-A041.1	Plus 1 (1.1) (4-A281) Plus 2 (1.1) (4-A282) PCR Activator RUO (4-A035)
Devyser CFTR Iberia RUO	8-A033-RUO	Iberia 1 RUO (4-A192) Iberia 2 RUO (4-A193) PCR Activator RUO (4-A035)
Devyser CFTR UK RUO	8-A034-RUO	UK 1 RUO (4-A203) UK 2 RUO (4-A204) PCR Activator RUO (4-A035)
Devyser Thrombophilia RUO	8-A035-RUO	Thromb Mix RUO (4-A214) PCR Activator RUO (4-A035)
Devyser CVD RUO	8-A036-RUO	CVD Mix RUO (4-A218) PCR Activator RUO (4-A035)
Devyser UPD-15 RUO	8-A016-RUO	Devyser UPD-15 Mix RUO (4-A184) PCR Activator RUO (4-A035)
Devyser HFE v2 RUO	8-A030.2-RUO	HFE v2 Mix RUO (4-A216) PCR Activator RUO (4-A035)

Devyser AZF RUO	8-A019-RUO	AZF Mix RUO (4-A037) PCR Activator RUO (4-A035)
Devyser AZF v2 RUO	8-A019.2-RUO	AZF v2 Mix RUO (4-A241) PCR Activator RUO (4-A035)
Devyser AZF Extension RUO	8-A020-RUO	Extension Mix RUO (4-A228) PCR Activator RUO (4-A035)
560 SIZER ORANGE	8-A402	560 SIZER ORANGE (4-A153)
DEV-5 Dye Set, Singlecap	8-A400	BLUE (4-A145) GREEN (4-A146) YELLOW (4-A147) RED (4-A148) ORANGE (4-A149)
DEV-5 Dye Set, Multicap	8-A401	DEV-5 (4-A150)
Devyser BRCA RUO	8-A102	BRCA mix (4-A244) Start (4-A243) Dilution buffer (4-A245) Index mix (4-A247) Index strip A1 (4-A251) Index strip A2 (4-A252) Index buffer (4-A258)
Devyser Index Plate A	8-A200	Index plate A3 (4-A253)
Devyser Library Clean	8-A204	Clean (4-A255) Wash (4-A256) Dilution buffer (4-A245)

## 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

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**

### 3.1. 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-A035	4-A188	4-A205	4-A214	4-A244	4-A255
	4-A037	4-A189	4-A206	4-A216	4-A245	4-A256
	4-A184	4-A192	4-A207	4-A218	4-A247	4-A258
	4-A185	4-A193	4-A208	4-A228	4-A251	4-A281
	4-A186	4-A203	4-A209	4-A241	4-A252	4-A282
	4-A187	4-A204	4-A210	4-A243	4-A253	
Constituent		Classification			Concentration	
<b>SODIUM AZIDE</b>						
CAS nr	26628-22-8	Acute Tox 2oral, Acid Tox 1, Aquatic Acute			< 0,1 %	
EG nr	247-852-1	1, Aquatic Chronic 1; M = 1; H300, EUH032,				
Index nr	011-004-00-7	H400, H410				

Article number:	4-A145	4-A148	4-A153		
	4-A146	4-A149			
	4-A147	4-A150			
Constituent		Classification		Concentration	
-		-		-	

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 eyes with plenty of water. If symptoms persist, seek medical advice.

#### 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**

Not indicated.

#### **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**

Use recommended safety equipment, see section 8.

Do not inhale vapours and avoid contact with skin, eyes and clothes when cleaning up the spillage. Ensure good ventilation.

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

Avoid discharge into soil, water or sewers.

#### **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**

Not indicated.

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

#### **7.1. Precautions for safe handling**

Do not inhale the fumes and avoid exposure to skin, eyes and clothing.

Store this product separately from food items and keep it out of the reach of children and pets. Handle in premises with good ventilation.

Do not mix with other products.

Do not eat, drink or smoke in premises where this product is handled. Take off work clothes and protective gear before meals.

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.

Wash your hands after using the product.

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

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

#### **GLYCEROL**

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

Time-weighted-average exposure limit (TWA) 10 mg/m<sup>3</sup>

#### **HYDROCHLORIC ACID**

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

Time-weighted-average exposure limit (TWA) 1 ppm / 2 mg/m<sup>3</sup> Short term exposure limit (STEL) 5 ppm / 8 mg/m<sup>3</sup>

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.

### **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.

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

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

a) Appearance	Form: liquid. Colour: varying
b) Odour	Not indicated
c) Odour threshold	Not indicated
d) pH	7-9
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

## **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**

Not indicated.

### **10.5. Incompatible materials**

Not indicated.

### **10.6. Hazardous decomposition products**

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

## **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 product is not classified as harmful to health.

#### **SODIUM AZIDE**

LD50 rabbit 24h: 50 mg/kg Dermal

LC50 rat 4h: 0.037 mg/L Inhalation

LD50 rat 24h: 27 mg/kg Orally

#### **Skin corrosion/irritation**

Not indicated.

#### **Serious eye damage/irritation**

Not indicated.

#### **Respiratory or skin sensitisation**

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

#### **Germ cell mutagenicity**

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

#### **Carcinogenicity**

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

#### **Reproductive toxicity**

Not indicated.

#### **STOT-single exposure**

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

#### **STOT-repeated exposure**

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

#### **Aspiration hazard**

Not indicated.

## **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.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

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

Waste handling of the product

The product is not classified as hazardous waste.  
Empty, rinsed packaging is sent for recycling where practicable. Observe local regulations.

## **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

## **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**

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**

This is the first version.

### **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 Cron 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

#### 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 2017-08-25.

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)	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**

**Editorial information**

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)