

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 |
|------------------------------|----------------|--|
| 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 68 RUO | 8-A403 | CFTR 1 (4-A319) CFTR 2 (4-A320) Mix 1 (4-A321) Mix 2 (4-A322) |
| 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 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) BRCA Mix, 48 test (4-A273) Start, 48 test (4-A274) Dilution buffer, 96 test (4-A275) Index mix, 48 test (4-A276) Index plate A3 (4-A253) Index buffer, 96 test (4-A277) |
| Devyser Chimerism | 8-A405 (Old article number 8-A107-RUO) | Chim mix (4-A300) Start, M (4-A301) Dilution buffer (4-A245) Index mix S (4-A302) Index buffer (4-A258) Dilution buffer, 96 test (4-A275) Index buffer, 96 test (4-A277) |
| Devyser Index Plate A | 8-A200 | Index plate A3 (4-A253) |
| Devyser Index Plate LB-A | 8-A202 | Index plate LB-A (4-A323) |
| 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

This product does not contain any substances that are assessed to be a PBT or a vPvB

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-A192 | 4-A208 | 4-A241 | 4-A253 | 4-A276 | 4-A321 |
|---------------------|-----------------------|--------------------------------------|--------|----------------------|--------|--------|--------|
| | 4-A037 | 4-A193 | 4-A209 | 4-A243 | 4-A255 | 4-A277 | 4-A322 |
| | 4-A185 | 4-A203 | 4-A210 | 4-A244 | 4-A256 | 4-A300 | 4-A323 |
| | 4-A186 | 4-A204 | 4-A214 | 4-A245 | 4-A258 | 4-A301 | |
| | 4-A187 | 4-A205 | 4-A216 | 4-A247 | 4-A273 | 4-A302 | |
| | 4-A188 | 4-A206 | 4-A218 | 4-A251 | 4-A274 | 4-A319 | |
| | 4-A189 | 4-A207 | 4-A228 | 4-A252 | 4-A275 | 4-A320 | |
| 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; | | | | | |
| Index nr | 011-004-00-7 | H300, EUH032, 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 the eye for several minutes with lukewarm water. If irritation persists call a doctor.

Upon skin contact

Remove contaminated clothing.

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

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

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

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/m³ Short term exposure limit (STEL) 0.3 mg/m³

Note Sk

GLYCEROL

United Kingdoms (EH40/2005)

Time-weighted-average exposure limit (TWA) 10 mg/m³

HYDROCHLORIC ACID

United Kingdoms (EH40/2005)

Time-weighted-average exposure limit (TWA) 1 ppm / 2 mg/m³ Short term exposure limit (STEL) 5 ppm / 8 mg/m³

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 with good ventilation.

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

Avoid discharge into sewers.

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

No data available.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂) 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 acutely toxic.

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 mixture is judged as a whole and is classified to be neither corrosive nor irritant to skin. Mild irritation may occur on prolonged or repeated exposure.

Serious eye damage/irritation

The mixture is judged as a whole and is classified to be neither corrosive nor irritant to the eyes. Mild irritation may occur on prolonged or repeated exposure.

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

No known hazards for occasional exposure.

STOT-repeated exposure

No known hazards for repeated exposure.

Aspiration hazard

The product is not classified as being toxic for aspiration.

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

This product does not contain any substances that are assessed to be a PBT or a vPvB.

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. Avoid discharge into sewers.

Observe local regulations.

See also national waste 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

Earlier versions: 2017-08-25 Changes in section(s) 4, 8, 11, 13.

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 (EH40/2005 (Third edition, published 2018))

| | |
|----|--|
| 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 2019-08-07.

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

| | |
|-------------------------------|--|
| | REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL |
| 1907/2006 Annex II (2015/830) | 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 |
| 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. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with the directions for use.

Other relevant information

Not indicated