

SAFETY DATA SHEETS

Invivoscribe® RNA Sensitivity Panels

Catalog Number	Description
40870030	Sensitivity Panel - IVS-0003 Clonal Control RNA
40870110	Sensitivity Panel - IVS-0011 Clonal Control RNA
40870150	Sensitivity Panel - IVS-0015 Clonal Control RNA
40870200	Sensitivity Panel - IVS-0020 Clonal Control RNA
40870320	Sensitivity Panel - IVS-0032 Clonal Control RNA

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

1.1. Product identifier

Product Code(s)	Product Name	Synonyms
40830240	100% IVS-0003 Sensitivity RNA	None
40830250	10 ⁻¹ IVS-0003 Sensitivity RNA	None
40830260	10 ⁻² IVS-0003 Sensitivity RNA	None
40830270	10 ⁻³ IVS-0003 Sensitivity RNA	None
40830280	10 ⁻⁴ IVS-0003 Sensitivity RNA	None
40830290	10 ⁻⁵ IVS-0003 Sensitivity RNA	None
40830300	10 ⁻⁶ IVS-0003 Sensitivity RNA	None
40830800	100% IVS-0011 Sensitivity RNA	None
40830810	10 ⁻¹ IVS-0011 Sensitivity RNA	None
40830820	10 ⁻² IVS-0011 Sensitivity RNA	None
40830830	10 ⁻³ IVS-0011 Sensitivity RNA	None
40830840	10 ⁻⁴ IVS-0011 Sensitivity RNA	None
40830850	10 ⁻⁵ IVS-0011 Sensitivity RNA	None
40830860	10 ⁻⁶ IVS-0011 Sensitivity RNA	None
40831080	100% IVS-0015 Sensitivity RNA	None
40831090	10 ⁻¹ IVS-0015 Sensitivity RNA	None
40831100	10 ⁻² IVS-0015 Sensitivity RNA	None
40831110	10 ⁻³ IVS-0015 Sensitivity RNA	None
40831120	10 ⁻⁴ IVS-0015 Sensitivity RNA	None
40831130	10 ⁻⁵ IVS-0015 Sensitivity RNA	None
40831140	10 ⁻⁶ IVS-0015 Sensitivity RNA	None
40831430	100% IVS-0020 Sensitivity RNA	None
40831440	10 ⁻¹ IVS-0020 Sensitivity RNA	None
40831450	10 ⁻² IVS-0020 Sensitivity RNA	None
40831460	10 ⁻³ IVS-0020 Sensitivity RNA	None
40831470	10 ⁻⁴ IVS-0020 Sensitivity RNA	None
40831480	10 ⁻⁵ IVS-0020 Sensitivity RNA	None
40831490	10 ⁻⁶ IVS-0020 Sensitivity RNA	None
40832270	100% IVS-0032 Sensitivity RNA	None
40832280	10 ⁻¹ IVS-0032 Sensitivity RNA	None
40832290	10 ⁻² IVS-0032 Sensitivity RNA	None
40832300	10 ⁻³ IVS-0032 Sensitivity RNA	None
40832310	10 ⁻⁴ IVS-0032 Sensitivity RNA	None
40832320	10 ⁻⁵ IVS-0032 Sensitivity RNA	None
40832330	10 ⁻⁶ IVS-0032 Sensitivity RNA	None

Pure substance/mixture

Mixture

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

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

Recommended use Assay reagent
Uses advised against For professional use only

1.3. Details of the supplier of the safety data sheet**Importer**

Invivoscribe Technologies
 Zeppelinstrasse 1
 85399 Hallbergmoos
 Germany
 Phone: +49 89 904 299 800

Supplier

Invivoscribe, Inc.
 10222 Barnes Canyon Rd
 Bldg. 1
 San Diego, CA 92121
 Phone: +1 858-224-6600

Distributor

Invivoscribe Technologies, SARL
 c/o Ficorec Domiciliation Services
 132, Boulevard Michelet
 Hall Nord – 5ème étage
 13008 Marseille
 FRANCE
 Tel: +33 (0)4 42 01 78 10

For further information, please contact

E-mail address customerservice@invivoscribe.com

1.4. Emergency telephone number

Emergency telephone +49 89 904 299 800 (M-F 8:00 – 16:30 CET)

Emergency telephone - §45 - (EC)1272/2008

Europe 112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture*****Classification according to Regulation (EC) No. 1272/2008 [CLP]***

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

2.2. Label elements**Hazard statements**

Not classified.

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

No information available.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients**3.1 Substances**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Full text of H- and EUH-phrases: see section 16**Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) for classifying a mixture based on its components

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures**4.1. Description of first aid measures**

SECTION 4: First aid measures

Inhalation	Remove to fresh air. Get medical attention if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. Get medical attention if symptoms occur.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Get medical attention if symptoms occur.

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

Symptoms	None known.
Effects of Exposure	No information available.

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

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	No information available.
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5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Dam up. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information See section 13 for more information
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

SECTION 7: Handling and storage

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Storage class (TRGS 510)	Storage class 10.

7.3. Specific end use(s)

Specific use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers	No information available.
Derived No Effect Level (DNEL) - General Public	No information available.
Predicted No Effect Concentration (PNEC)	No information available.

8.2. Exposure controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.
Hand protection	Wear suitable gloves. Gloves must conform to standard EN 374.
Skin and body protection	Wear suitable protective clothing. (EN ISO 6529).
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	
Physical state	Liquid
Color	Colorless
Odor	Odorless
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		No data available
Initial boiling point and boiling range		No data available
Flammability		No data available
Flammability Limit in Air		No data available
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Flash point		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available

SECTION 9: Physical and chemical properties

pH	No data available
pH (as aqueous solution)	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Water solubility	No data available
Solubility(ies)	No data available
Partition coefficient	No data available
Vapor pressure	No data available
Relative density	No data available
Bulk density	No data available
Liquid density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Particle size	No data available
Particle size distribution	No data available

9.2. Other information

- 9.2.1. Information with regard to physical hazard classes**
Not applicable
- 9.2.2. Other safety characteristics**
No information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity None under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation.

SECTION 11: Toxicological information

..Skin contact	Specific test data for the substance or mixture is not available.
..Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	None known.
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Acute toxicity**Numerical measures of toxicity**

Based on available data, the classification criteria are not met.

Component Information**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

..Skin corrosion/irritation	Based on available data, the classification criteria are not met.
..Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
..Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
..Germ cell mutagenicity	Based on available data, the classification criteria are not met.
..Carcinogenicity	Based on available data, the classification criteria are not met.
..Reproductive toxicity	Based on available data, the classification criteria are not met.
..STOT - single exposure	Based on available data, the classification criteria are not met.
..STOT - repeated exposure	Based on available data, the classification criteria are not met.
..Aspiration hazard	Based on available data, the classification criteria are not met.

11.2. Information on other hazards**11.2.1. Endocrine disrupting properties**

Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors.
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11.2.2. Other information

Other adverse effects	No information available.
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SECTION 12: Ecological information**12.1. Toxicity**

..Ecotoxicity	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
..Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

..Persistence and degradability	No information available.
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12.3. Bioaccumulative potential

..Bioaccumulation	No information available.
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12.4. Mobility in soil

..Mobility in soil	No information available.
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12.5. Results of PBT and vPvB assessment

..PBT and vPvB assessment	The product does not contain any substance(s) classified as PBT or vPvB.
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12.6. Endocrine disrupting properties

..Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors.
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12.7. Other adverse effects

..Other adverse effects	No information available.
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SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
Waste codes / waste designations according to EWC / AVV	According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IMDG	Not regulated
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available
RID	Not regulated
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users Special Provisions	None
ADR	Not regulated
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users Special Provisions	None
IATA	Not regulated
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users Special Provisions	None
Note:	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Germany****Water hazard class (WGK)** non-hazardous to water (nwg)**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

Contact supplier for inventory compliance status

15.2. Chemical safety assessment**Chemical Safety Report** No information available**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

ATE: Acute Toxicity Estimate

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

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Skin designation

SCBA Self-contained breathing apparatus

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	On basis of test data
Reproductive toxicity	Calculation method

SECTION 16: Other information

STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 United States of America National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

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This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet