

SAFETY DATA SHEET

LymphoTrack® Assays - MiSeq™

Catalog Number	Description
71210009	LymphoTrack <i>IGH</i> FR1 Assay Kit A - MiSeq
71210039	LymphoTrack <i>IGH</i> FR1 Assay Panel - MiSeq
71210059	LymphoTrack <i>IGHV</i> Leader Somatic Hypermutation Assay Kit A - MiSeq
71210069	LymphoTrack <i>IGHV</i> Leader Somatic Hypermutation Assay Panel - MiSeq
71210089	LymphoTrack <i>IGH</i> FR2 Assay Kit A - MiSeq
71210099	LymphoTrack <i>IGH</i> FR2 Assay Panel - MiSeq
71210109	LymphoTrack <i>IGH</i> FR3 Assay Kit A - MiSeq
71210119	LymphoTrack <i>IGH</i> FR3 Assay Panel - MiSeq
71210129	LymphoTrack <i>IGH</i> FR1/2/3 Assay Kit A - MiSeq
71210139	LymphoTrack <i>IGH</i> FR1/2/3 Assay Panel - MiSeq
71210149	LymphoTrack <i>IGH</i> FR1 Assay Panel B – MiSeq
71220009	LymphoTrack <i>IGK</i> Assay Kit A - MiSeq
71220019	LymphoTrack <i>IGK</i> Assay Panel - MiSeq
72250009	LymphoTrack <i>TRB</i> Assay Kit A - MiSeq
72250019	LymphoTrack <i>TRB</i> Assay Panel - MiSeq
72270009	LymphoTrack <i>TRG</i> Assay Panel - MiSeq
72270019	LymphoTrack <i>TRG</i> Assay Kit A - MiSeq

Issuing Date 27-Apr-2023

Revision Date 27-Apr-2023

Revision Number 1

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

1.1. Product identifier

Product Code(s)	Product Name	Synonyms
40880008	IGH SHM Positive Control DNA	None
40880009	IGH Positive Control	None
40880018	IGK Positive	None
40880058	TRB Positive Control	None
40920018	NGS Negative Control	None
42270019	TRG POS (+) Control	None

Pure substance/mixture Mixture

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

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

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

SECTION 6: Accidental release measures

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

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**

SECTION 9: 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
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.
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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.
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SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

Conditions to avoid	None known based on information supplied.
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10.5. Incompatible materials

Incompatible materials	None known based on information supplied.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None known based on information supplied.
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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.
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.
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Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.
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12.2. Persistence and degradability

SECTION 12: Ecological information

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility in soil No information available.

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.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Other adverse effects No information available.

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

SECTION 14: Transport information

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

SECTION 16: Other information

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
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

Issuing Date 27-Apr-2023**Revision Date** 27-Apr-2023

SECTION 16: Other information

Revision Note

Initial Release.

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.

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

1.1. Product identifier

Product Code(s)	Product Name	Synonyms
21210009	IGH FR1 MiSeq 01	None
21210019	IGH FR1 MiSeq 02	None
21210029	IGH FR1 MiSeq 03	None
21210039	IGH FR1 MiSeq 04	None
21210049	IGH FR1 MiSeq 05	None
21210059	IGH FR1 MiSeq 06	None
21210069	IGH FR1 MiSeq 07	None
21210079	IGH FR1 MiSeq 08	None
21210089	IGH FR1 MiSeq 09	None
21210099	IGH FR1 MiSeq 10	None
21210109	IGH FR1 MiSeq 11	None
21210119	IGH FR1 MiSeq 12	None
21210129	IGH FR1 MiSeq 13	None
21210139	IGH FR1 MiSeq 14	None
21210149	IGH FR1 MiSeq 15	None
21210159	IGH FR1 MiSeq 16	None
21210169	IGH FR1 MiSeq 18	None
21210179	IGH FR1 MiSeq 19	None
21210189	IGH FR1 MiSeq 20	None
21210199	IGH FR1 MiSeq 21	None
21210209	IGH FR1 MiSeq 22	None
21210219	IGH FR1 MiSeq 23	None
21210229	IGH FR1 MiSeq 25	None
21210239	IGH FR1 MiSeq 27	None
21210249	IGH Leader MiSeq 01	None
21210259	IGH Leader MiSeq 02	None
21210269	IGH Leader MiSeq 03	None
21210279	IGH Leader MiSeq 04	None
21210289	IGH Leader MiSeq 05	None
21210299	IGH Leader MiSeq 06	None
21210309	IGH Leader MiSeq 07	None
21210319	IGH Leader MiSeq 08	None
21210329	IGH Leader MiSeq 09	None
21210339	IGH Leader MiSeq 10	None
21210349	IGH Leader MiSeq 11	None
21210359	IGH Leader MiSeq 12	None
21210369	IGH Leader MiSeq 13	None
21210379	IGH Leader MiSeq 14	None
21210389	IGH Leader MiSeq 15	None
21210399	IGH Leader MiSeq 16	None
21210409	IGH Leader MiSeq 18	None

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

Product Code(s)	Product Name	Synonyms
21210419	IGH Leader MiSeq 19	None
21210429	IGH Leader MiSeq 20	None
21210439	IGH Leader MiSeq 21	None
21210449	IGH Leader MiSeq 22	None
21210459	IGH Leader MiSeq 23	None
21210469	IGH Leader MiSeq 25	None
21210479	IGH Leader MiSeq 27	None
21210489	IGH FR2 MiSeq 01	None
21210499	IGH FR2 MiSeq 02	None
21210509	IGH FR2 MiSeq 03	None
21210519	IGH FR2 MiSeq 04	None
21210529	IGH FR2 MiSeq 05	None
21210539	IGH FR2 MiSeq 06	None
21210549	IGH FR2 MiSeq 07	None
21210559	IGH FR2 MiSeq 08	None
21210569	IGH FR2 MiSeq 09	None
21210579	IGH FR2 MiSeq 10	None
21210589	IGH FR2 MiSeq 11	None
21210599	IGH FR2 MiSeq 12	None
21210609	IGH FR2 MiSeq 13	None
21210619	IGH FR2 MiSeq 14	None
21210629	IGH FR2 MiSeq 15	None
21210639	IGH FR2 MiSeq 16	None
21210649	IGH FR2 MiSeq 18	None
21210659	IGH FR2 MiSeq 19	None
21210669	IGH FR2 MiSeq 20	None
21210679	IGH FR2 MiSeq 21	None
21210689	IGH FR2 MiSeq 22	None
21210699	IGH FR2 MiSeq 23	None
21210709	IGH FR2 MiSeq 25	None
21210719	IGH FR2 MiSeq 27	None
21210729	IGH FR3 MiSeq 01	None
21210739	IGH FR3 MiSeq 02	None
21210749	IGH FR3 MiSeq 03	None
21210759	IGH FR3 MiSeq 04	None
21210769	IGH FR3 MiSeq 05	None
21210779	IGH FR3 MiSeq 06	None
21210789	IGH FR3 MiSeq 07	None
21210799	IGH FR3 MiSeq 08	None
21210809	IGH FR3 MiSeq 09	None
21210819	IGH FR3 MiSeq 10	None
21210829	IGH FR3 MiSeq 11	None
21210839	IGH FR3 MiSeq 12	None
21210849	IGH FR3 MiSeq 13	None
21210859	IGH FR3 MiSeq 14	None
21210869	IGH FR3 MiSeq 15	None
21210879	IGH FR3 MiSeq 16	None
21210889	IGH FR3 MiSeq 18	None

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

Product Code(s)	Product Name	Synonyms
21210899	IGH FR3 MiSeq 19	None
21210909	IGH FR3 MiSeq 20	None
21210919	IGH FR3 MiSeq 21	None
21210929	IGH FR3 MiSeq 22	None
21210939	IGH FR3 MiSeq 23	None
21210949	IGH FR3 MiSeq 25	None
21210959	IGH FR3 MiSeq 27	None
21210969	IGH FR1 MiSeq 17	None
21210979	IGH FR1 MiSeq 24	None
21210989	IGH FR1 MiSeq 26	None
21210999	IGH FR1 MiSeq 28	None
21211009	IGH FR1 MiSeq 29	None
21211019	IGH FR1 MiSeq 30	None
21211029	IGH FR1 MiSeq 31	None
21211039	IGH FR1 MiSeq 32	None
21211049	IGH FR1 MiSeq 33	None
21211059	IGH FR1 MiSeq 34	None
21211069	IGH FR1 MiSeq 35	None
21211079	IGH FR1 MiSeq 36	None
21211089	IGH FR1 MiSeq 37	None
21211099	IGH FR1 MiSeq 38	None
21211109	IGH FR1 MiSeq 39	None
21211119	IGH FR1 MiSeq 40	None
21211129	IGH FR1 MiSeq 41	None
21211139	IGH FR1 MiSeq 42	None
21211149	IGH FR1 MiSeq 43	None
21211159	IGH FR1 MiSeq 44	None
21211169	IGH FR1 MiSeq 45	None
21211179	IGH FR1 MiSeq 46	None
21211189	IGH FR1 MiSeq 47	None
21211199	IGH FR1 MiSeq 48	None
21220009	IGK MiSeq 01	None
21220019	IGK MiSeq 02	None
21220029	IGK MiSeq 03	None
21220039	IGK MiSeq 04	None
21220049	IGK MiSeq 05	None
21220059	IGK MiSeq 06	None
21220069	IGK MiSeq 07	None
21220079	IGK MiSeq 08	None
21220089	IGK MiSeq 09	None
21220099	IGK MiSeq 10	None
21220109	IGK MiSeq 11	None
21220119	IGK MiSeq 12	None
21220129	IGK MiSeq 13	None
21220139	IGK MiSeq 14	None
21220149	IGK MiSeq 15	None
21220159	IGK MiSeq 16	None
21220169	IGK MiSeq 18	None

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

Product Code(s)	Product Name	Synonyms
21220179	IGK MiSeq 19	None
21220189	IGK MiSeq 20	None
21220199	IGK MiSeq 21	None
21220209	IGK MiSeq 22	None
21220219	IGK MiSeq 23	None
21220229	IGK MiSeq 25	None
21220239	IGK MiSeq 27	None
22250009	TRB MiSeq 01	None
22250019	TRB MiSeq 02	None
22250029	TRB MiSeq 03	None
22250039	TRB MiSeq 04	None
22250049	TRB MiSeq 05	None
22250059	TRB MiSeq 06	None
22250069	TRB MiSeq 07	None
22250079	TRB MiSeq 08	None
22250089	TRB MiSeq 09	None
22250099	TRB MiSeq 10	None
22250109	TRB MiSeq 11	None
22250119	TRB MiSeq 12	None
22250129	TRB MiSeq 13	None
22250139	TRB MiSeq 14	None
22250149	TRB MiSeq 15	None
22250159	TRB MiSeq 16	None
22250169	TRB MiSeq 18	None
22250179	TRB MiSeq 19	None
22250189	TRB MiSeq 20	None
22250199	TRB MiSeq 21	None
22250209	TRB MiSeq 22	None
22250219	TRB MiSeq 23	None
22250229	TRB MiSeq 25	None
22250239	TRB MiSeq 27	None
22270019	TRG MiSeq 01	None
22270029	TRG MiSeq 02	None
22270039	TRG MiSeq 03	None
22270049	TRG MiSeq 04	None
22270059	TRG MiSeq 05	None
22270069	TRG MiSeq 06	None
22270079	TRG MiSeq 07	None
22270089	TRG MiSeq 08	None
22270099	TRG MiSeq 09	None
22270109	TRG MiSeq 10	None
22270119	TRG MiSeq 11	None
22270129	TRG MiSeq 12	None
22270139	TRG MiSeq 13	None
22270149	TRG MiSeq 14	None
22270159	TRG MiSeq 15	None
22270169	TRG MiSeq 16	None
22270189	TRG MiSeq 18	None

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

Product Code(s)	Product Name	Synonyms
22270199	TRG MiSeq 19	None
22270209	TRG MiSeq 20	None
22270219	TRG MiSeq 21	None
22270229	TRG MiSeq 22	None
22270239	TRG MiSeq 23	None
22270259	TRG MiSeq 25	None
22270279	TRG MiSeq 27	None

Pure substance/mixture

Mixture

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

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
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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 mixture 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**Endocrine Disruptor Information**

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

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

Not applicable

3.2 Mixtures

SECTION 3: Composition/information on ingredients

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Dimethyl sulfoxide 67-68-5	1-5	No data available	200-664-3	[C]	-	-	-

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

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 (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Dimethyl sulfoxide 67-68-5	28300	40000	5.3353	No data available	No data available

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**

Inhalation	Remove to fresh air. Get medical attention if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.
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**

SECTION 6: Accidental release measures

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.

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

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

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.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Dimethyl sulfoxide 67-68-5	-	TWA: 50 ppm TWA: 160 mg/m ³ H*	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Dimethyl sulfoxide 67-68-5	-	-	TWA: 50 ppm TWA: 160 mg/m ³ STEL: 100 ppm STEL: 320 mg/m ³	TWA: 50 ppm TWA: 150 mg/m ³ STEL: 150 ppm STEL: 500 mg/m ³ A*	TWA: 50 ppm iho*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Dimethyl sulfoxide 67-68-5	-	TWA: 50 ppm TWA: 160 mg/m ³ H*	TWA: 50 ppm TWA: 160 mg/m ³ Peak: 100 ppm Peak: 320 mg/m ³ *	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Dimethyl sulfoxide 67-68-5	-	-	-	-	O* TWA: 50 ppm TWA: 150 mg/m ³ STEL: 150 ppm STEL: 500 mg/m ³

SECTION 8: Exposure controls/personal protection

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Dimethyl sulfoxide 67-68-5	-	-	-	TWA: 160 mg/m ³ TWA: 50 ppm STEL: 100 ppm STEL: 320 mg/m ³ K*	-
Chemical name	Sweden		Switzerland		United Kingdom
Dimethyl sulfoxide 67-68-5	NGV: 50 ppm NGV: 150 mg/m ³ Vägledande KGV: 150 ppm Vägledande KGV: 500 mg/m ³ H*		TWA: 50 ppm TWA: 160 mg/m ³ STEL: 100 ppm STEL: 320 mg/m ³ H*		-

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

Chemical name	Oral	Dermal	Inhalation
Dimethyl sulfoxide 67-68-5	-	200 mg/kg bw/day [4] [6]	484 mg/m ³ [4] [6] 265 mg/m ³ [5] [6]

Notes

- [4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.
 [7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Dimethyl sulfoxide 67-68-5	60 mg/kg bw/day [4] [6]	-	120 mg/m ³ [4] [6] 47 mg/m ³ [5] [6]

Notes

- [4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.
 [7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Dimethyl sulfoxide 67-68-5	17 mg/L	-	1.7 mg/L	-	-
Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Dimethyl sulfoxide 67-68-5	13.4 mg/kg sediment dw	-	11 mg/L	3.02 mg/kg soil dw	0.7 g/kg food

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

SECTION 8: Exposure controls/personal protection

Hand protection	standard EN 166.
Skin and body protection	Wear suitable gloves. Gloves must conform to standard EN 374.
Respiratory protection	Wear suitable protective clothing (EN ISO 6529). 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	Clear liquid
Physical state	Liquid
Color	Colorless. Light blue, light yellow, light pink. or light orange
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		
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
pH	7 - 9.5	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		
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**

SECTION 9: Physical and chemical properties

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.
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.

Acute toxicity**Numerical measures of toxicity**

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

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl sulfoxide	= 28300 mg/kg (Rat)	= 40000 mg/kg (Rat)	> 5.33 mg/L (Rat) 4 h

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.

SECTION 11: Toxicological information

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.
11.2.2. Other information	
Other adverse effects	No information available.

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.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Dimethyl sulfoxide 67-68-5	-	LC50: =34000mg/L (96h, Pimephales promelas) LC50: 33 - 37g/L (96h, Oncorhynchus mykiss) LC50: >40g/L (96h, Lepomis macrochirus) LC50: =41.7g/L (96h, Cyprinus carpio)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Dimethyl sulfoxide	-1.35

12.4. Mobility in soil

Mobility in soil No information available.

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.

Chemical name	PBT and vPvB assessment
Dimethyl sulfoxide 67-68-5	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Other adverse effects No information available.

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.

SECTION 13: Disposal considerations

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**

France

Occupational Illnesses (R-463-3, France)

SECTION 15: Regulatory information

Chemical name	French RG number
Dimethyl sulfoxide 67-68-5	RG 84

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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Dimethyl sulfoxide - 67-68-5	75.	-

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

* 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

SECTION 16: Other information

Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	On basis of test data
Reproductive toxicity	Calculation method
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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Disclaimer

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End of Safety Data Sheet