

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Commission Regulation (EU) 2020/878 and Regulation (EC) No. 1272/2008

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 27-Apr-2023
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 1

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

#### 1.1. Product identifier

Product Code(s)	Product Name	Synonyms
20960010	Amplification Control – Unlabeled for Gel Detection	None
20960011	Amplification Control – 6FAM for ABI Fluorescence Detection	None
20960020	Specimen Control Size Ladder – Unlabeled for Gel Detection	None
20960021	Specimen Control Size Ladder – 6FAM for ABI Fluorescence Detection	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

<u>Importer</u> <u>Supplier</u> <u>Distributor</u>

Invivoscribe TechnologiesInvivoscribe, Inc.Invivoscribe Technologies, SARLZeppelinstrasse 110222 Barnes Canyon Rdc/o Ficorec Domiciliation Services

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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

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

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

## 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 >=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

# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

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.

## 5.3. Advice for firefighters

Special protective equipment and precautions

for fire-fighters turnout gear. U

turnout gear. Use personal protection equipment.

Firefighters should wear self-contained breathing apparatus and full firefighting

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

## **Amplification Control Master Mixes**

## 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.

## 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/m³	-	-	-
		H*			
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Dimethyl sulfoxide	-	-	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm
67-68-5			TWA: 160 mg/m <sup>3</sup>	TWA: 150 mg/m <sup>3</sup>	iho*
			STEL: 100 ppm	STEL: 150 ppm	
			STEL: 320 mg/m <sup>3</sup>	STEL: 500 mg/m <sup>3</sup>	
				A*	
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Dimethyl sulfoxide	-	TWA: 50 ppm	TWA: 50 ppm	-	-
67-68-5		TWA: 160 mg/m <sup>3</sup>	TWA: 160 mg/m <sup>3</sup>		
		H*	Peak: 100 ppm		
			Peak: 320 mg/m <sup>3</sup>		
			*		
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania

# **SECTION 8: Exposure controls/personal protection**

Dimethyl sulfoxide	-	-	-		-	0*
67-68-5						TWA: 50 ppm
						TWA: 150 mg/m <sup>3</sup>
						STEL: 150 ppm
						STEL: 500 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	S	lovenia	Spain
Dimethyl sulfoxide	-	-	-	TWA:	160 mg/m <sup>3</sup>	-
67-68-5				TW	A: 50 ppm	
				STEL	.: 100 ppm	
				STEL:	320 mg/m <sup>3</sup>	
					K*	
Chemical name	Swed	en	Switzerland		Unit	ted Kingdom
Dimethyl sulfoxide	NGV: 50	ppm	TWA: 50 ppm			-
67-68-5	NGV: 150	mg/m³	TWA: 160 mg/m <sup>3</sup>			
	Vägledande KGV: 150 ppm		STEL: 100 ppm			
	Vägledande KGV	/: 500 mg/m <sup>3</sup>	STEL: 320 mg/m <sup>3</sup>			
	H*		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	-	200 mg/kg bw/day [4] [6]	484 mg/m³ [4] [6]
67-68-5			265 mg/m³ [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	60 mg/kg	-	120 mg/m³ [4] [6]
67-68-5	bw/day [4] [6]		47 mg/m <sup>3</sup> [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

# SECTION 8: Exposure controls/personal protection

## 8.2. Exposure controls

Property

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

Remarks • Method

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

Values

**Odor** Odorless

Odor threshold No information available

- Toperty	Memarks Wethou
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
<b>pH</b> 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

# **SECTION 9: Physical and chemical properties**

#### 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.

Skin contactSpecific test data for the substance or mixture is not available.IngestionSpecific 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

# SECTION 11: Toxicological 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

11.2.2. Other information

**SECTION 12: Ecological information** 

Other adverse effects No information available.

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

#### 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	-	LC50: =34000mg/L (96h, Pimephales promelas)	-	-
67-68-5		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.

**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**

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	Not regulated
UN number or ID number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not applicable
Environmental hazards	Not applicable
<b>Special Precautions for Users</b>	
Special Provisions	None
Maritime transport in bulk acco to IMO instruments	ording No information available
	Not regulated
UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not applicable
<b>Environmental hazards</b>	Not applicable
<b>Special Precautions for Users</b>	
al Provisions	None
	Not regulated
	Not applicable
	Not applicable
Special Provisions	None
	Not regulated
UN number or ID number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not applicable
Environmental hazards	Not applicable
Special Precautions for Users	
Special Provisions	None
1	None
	UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special Precautions for Users Special Provisions Maritime transport in bulk acco to IMO instruments  UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special Precautions for Users IN Provisions  UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special Precautions for Users Special Precautions for Users Special Provisions  UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special Precautions for Users Special Precautions for Users Special Precautions for Users Special Precautions for Users

# **SECTION 15: Regulatory information**

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

# **SECTION 15: Regulatory information**

#### **National regulations**

France

Occupational Illnesses (R-463-3, France)

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

#### 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
Respiratory sensitization	Calculation method

### **Amplification Control Master Mixes**

SECTION 16: Other information	
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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**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.

**End of Safety Data Sheet**