

# **SAFETY DATA SHEET**

# LymphoTrack<sup>®</sup> Dx Assays – S5/PGM™

Catalog Number	Description
91210007	LymphoTrack Dx IGH FR1 Assay - S5/PGM
91210037	LymphoTrack Dx IGH FR2 Assay - S5/PGM
91210047	LymphoTrack Dx IGH FR3 Assay - S5/PGM
91210057	LymphoTrack Dx IGH FR1/2/3 - S5/PGM
91220007	LymphoTrack Dx IGK Assay - S5/PGM
92270007	LymphoTrack Dx TRG Assay - S5/PGM



# 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

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
40880009	IGH Positive Control	None
40880018	IGK Positive	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

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

Invivoscribe Technologies Invivoscribe, Inc. Invivoscribe Technologies, SARL Zeppelinstrasse 1 10222 Barnes Canyon Rd c/o Ficorec Domiciliation Services

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 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 - (E	C)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.

### **SECTION 2: Hazards identification**

**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 (ATEmix) for classifying a mixture based on its components

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 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

### **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.

### 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.

#### **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.

### **SECTION 6: Accidental release measures**

#### 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

Handle in accordance with good industrial hygiene and safety practice.

considerations

#### 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** This product, as supplied, does not contain any hazardous materials with occupational exposure

limits established by the region specific regulatory bodies.

#### **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) - WorkersNo information available.Derived No Effect Level (DNEL) - General PublicNo 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.

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

**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

Remarks • Method **Property Values** 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 рΗ 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 No data available Solubility(ies) **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.

### **SECTION 10: Stability and reactivity**

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**

#### 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. Based on available data, the classification criteria are not met. Serious eye damage/eye irritation 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.

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.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

No information available. Bioaccumulation

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 Dispose of in accordance with local regulations. Dispose of waste in accordance with

Not regulated

products environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

Waste codes / waste

According to the European Waste Catalog, Waste Codes are not product specific, but application designations according to EWC specific. Waste codes should be assigned by the user based on the application for which the

/ AVV product was used.

## **SECTION 14: Transport information**

IMD	G		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
<u>RID</u>			Not regulated
	14.1	UN number	Not regulated
	14.2	UN proper shipping name	Not regulated

Transport hazard class(es)

# **SECTION 14: Transport information**

14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special Precautions for Users	
	Special Provisions	None
<u>ADR</u>		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
<u>IATA</u>		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 \* 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
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)

### **SECTION 16: Other information**

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 Date27-Apr-2023Revision Date27-Apr-2023Revision NoteInitial 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.



# **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

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
21210007CE	<i>IGH</i> FR1 S5/PGM 01	None
21210017CE	<i>IGH</i> FR1 S5/PGM 02	None
21210027CE	<i>IGH</i> FR1 S5/PGM 03	None
21210037CE	<i>IGH</i> FR1 S5/PGM 04	None
21210047CE	<i>IGH</i> FR1 S5/PGM 07	None
21210057CE	<i>IGH</i> FR1 S5/PGM 08	None
21210067CE	<i>IGH</i> FR1 S5/PGM 09	None
21210077CE	<i>IGH</i> FR1 S5/PGM 10	None
21210087CE	<i>IGH</i> FR1 S5/PGM 11	None
21210097CE	<i>IGH</i> FR1 S5/PGM 12	None
21210107CE	<i>IGH</i> FR1 S5/PGM 13	None
21210117CE	<i>IGH</i> FR1 S5/PGM 14	None
21210127CE	<i>IGH</i> FR2 S5/PGM 01	None
21210137CE	<i>IGH</i> FR2 S5/PGM 02	None
21210147CE	<i>IGH</i> FR2 S5/PGM 03	None
21210157CE	<i>IGH</i> FR2 S5/PGM 04	None
21210167CE	<i>IGH</i> FR2 S5/PGM 07	None
21210177CE	<i>IGH</i> FR2 S5/PGM 08	None
21210187CE	<i>IGH</i> FR2 S5/PGM 09	None
21210197CE	<i>IGH</i> FR2 S5/PGM 10	None
21210207CE	<i>IGH</i> FR2 S5/PGM 11	None
21210217CE	<i>IGH</i> FR2 S5/PGM 12	None
21210227CE	<i>IGH</i> FR2 S5/PGM 13	None
21210237CE	<i>IGH</i> FR2 S5/PGM 14	None
21210247CE	<i>IGH</i> FR3 S5/PGM 01	None
21210257CE	<i>IGH</i> FR3 S5/PGM 02	None
21210267CE	<i>IGH</i> FR3 S5/PGM 03	None
21210277CE	<i>IGH</i> FR3 S5/PGM 04	None
21210287CE	<i>IGH</i> FR3 S5/PGM 07	None
21210297CE	<i>IGH</i> FR3 S5/PGM 08	None
21210307CE	<i>IGH</i> FR3 S5/PGM 09	None
21210317CE	<i>IGH</i> FR3 S5/PGM 10	None
21210327CE	<i>IGH</i> FR3 S5/PGM 11	None
21210337CE	<i>IGH</i> FR3 S5/PGM 12	None
21210347CE	<i>IGH</i> FR3 S5/PGM 13	None
21210357CE	<i>IGH</i> FR3 S5/PGM 14	None
21220007CE	<i>IGK</i> S5/PGM 01	None
21220017CE	<i>IGK</i> S5/PGM 02	None
21220027CE	<i>IGK</i> S5/PGM 04	None
21220037CE	<i>IGK</i> S5/PGM 08	None
21220047CE	<i>IGK</i> S5/PGM 09	None

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

21220057CE	<i>IGK</i> S5/PGM 10	None
21220067CE	IGK S5/PGM 11	None
21220077CE	<i>IGK</i> S5/PGM 12	None
21220087CE	<i>IGK</i> S5/PGM 13	None
21220097CE	IGK S5/PGM 14	None
21220107CE	<i>IGK</i> S5/PGM 16	None
21220117CE	<i>IGK</i> S5/PGM 17	None
22270007CE	TRG S5/PGM 01	None
22270017CE	TRG S5/PGM 02	None
22270027CE	TRG S5/PGM 03	None
22270037CE	TRG S5/PGM 04	None
22270047CE	TRG S5/PGM 07	None
22270057CE	TRG S5/PGM 08	None
22270067CE	TRG S5/PGM 09	None
22270077CE	TRG S5/PGM 10	None
22270087CE	<i>TRG</i> S5/PGM 11	None
22270097CE	TRG S5/PGM 12	None
22270107CE	<i>TRG</i> S5/PGM 13	None
22270117CE	<i>TRG</i> S5/PGM 14	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 Services85399 HallbergmoosBldg. 1132, Boulevard Michelet

85399 Hallbergmoos Bldg. 1 132, Boulevard Michelet Germany San Diego, CA 92121 Hall Nord – 5ème étage

Phone: +49 89 904 299 800 Phone: +1 858-224-6600 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 mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### **SECTION 2: Hazards identification**

#### 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

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

**Note to physicians** Treat symptomatically.

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

### **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.

5.3. Advice for firefighters

**Special protective equipment and**Firefighters should wear self-contained breathing apparatus and full firefighting

precautions for fire-fighters turnout gear. Use personal protection equipment.

#### **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*	-	-	-

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

Chemical name	Cyprus	Czech Republ	lic	Denmark	ı	Estonia	Finland
Dimethyl sulfoxide 67-68-5	-	-		TWA: 50 ppm TWA: 160 mg/m <sup>3</sup> STEL: 100 ppm STEL: 320 mg/m <sup>3</sup>	TWA: STEI	A: 50 ppm 150 mg/m <sup>3</sup> .: 150 ppm 500 mg/m <sup>3</sup> A*	TWA: 50 ppm iho*
Chemical name	France	Germany TRO	GS	Germany DFG	(	Greece	Hungary
Dimethyl sulfoxide 67-68-5	-	TWA: 50 ppr TWA: 160 mg/ H*		TWA: 50 ppm TWA: 160 mg/m <sup>3</sup> Peak: 100 ppm Peak: 320 mg/m <sup>3</sup>			-
Chemical name	Ireland	Italy MDLPS	5	Italy AIDII		Latvia	Lithuania
Dimethyl sulfoxide 67-68-5	-	-		-		-	O* 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 67-68-5	-	-		-	TW. STEI	160 mg/m <sup>3</sup> A: 50 ppm .: 100 ppm 320 mg/m <sup>3</sup> K*	-
Chemical name	Swed	en		Switzerland		Unit	ed Kingdom
Dimethyl sulfoxide 67-68-5	NGV: 50 NGV: 150   Vägledande KG Vägledande KGV H*	mg/m³ V: 150 ppm		TWA: 50 ppm TWA: 160 mg/m <sup>3</sup> STEL: 100 ppm STEL: 320 mg/m <sup>3</sup> 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/m³ [4] [6] 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/m³ [5] [6]

Notes

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

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

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

**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.

Wear suitable gloves. Gloves must conform to standard EN 374. **Hand protection** 

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**

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

Clear liquid **Appearance Physical state** Liquid

Color Colorless. Light blue, light yellow, light pink. or light orange

Odor Odorless

Odor threshold No information available

Property	Valu	ıes	<u></u>	Remarks	• Method
Melting point / freezing point				No data a	/ailable
Initial boiling point and boiling range				No data a	/ailable
Flammability				No data a	/ailable
Flammability Limit in Air					
Upper flammability or explosive limits	5			No data a	/ailable
Lower flammability or explosive limits	5			No data a	/ailable
Flash point				No data a	/ailable
Autoignition temperature				No data a	/ailable
Decomposition temperature				No data a	/ailable
рН	7 -	- 9	0.5	No data a	/ailable

pH (as aqueous solution) No data available Kinematic viscosity No data available

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

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 SizeNo data availableParticle Size DistributionNo 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.

#### 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. Based on available data, the classification criteria are not met. Germ cell mutagenicity Carcinogenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Reproductive toxicity 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** 

### **SECTION 12: Ecological 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	The substance is not PBT / vPvB
67-68-5	

#### 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 the European Waste Catalog, Waste Codes are not product specific, but according to EWC / AVV application specific. Waste codes should be assigned by the user based on the

application for which the product was used.

### **SECTION 14: Transport information**

<u>IMDG</u>		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

<u>ADR</u> Not regulated

### **SECTION 14: Transport information**

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	<b>Environmental hazards</b>	Not applicable
14.6	<b>Special Precautions for Users</b>	
	<b>Special Provisions</b>	None
<u>IATA</u>		Not regulated
14.1	UN number or ID number	Not regulated

14.1UN number or ID numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot applicable14.5Environmental hazardsNot 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)

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		
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)

### **SECTION 16: Other information**

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**