* invivoscribe

SAFETY DATA SHEET

LymphoTrack[®] Assay – S5/PGM™

Catalog Number	Description
71210007	LymphoTrack IGH FR1 Assay - S5/PGM
71210037	LymphoTrack IGH FR2 Assay - S5/PGM
71210047	LymphoTrack IGH FR3 Assay - S5/PGM
71210057	LymphoTrack <i>IGH</i> FR1/2/3 - S5/PGM
71220007	LymphoTrack <i>IGK</i> Assay - S5/PGM
72270007	LymphoTrack 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
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 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	This product does not contain any known or suspected endocrine disruptors.
Information	

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

Description of first aid measures 4.1.

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.	

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

Symptoms	None known.
Effects of Exposure	No informatio

information available.
)

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

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

<u>5.1.</u>	Extinguishing media	
	Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Unsuitable extinguishing media	No information available.
<u>5.2.</u>	2. Special hazards arising from the substance or mixture	
	Specific hazards arising from the chemical	No information available.
52	Advice for firefighters	

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

<u>6.1.</u>	Personal precautions, protective equipment and emergency procedures		
	Personal precautions	Ensure adequate ventilation.	
	For emergency responders	Use personal protection recommended in Section 8.	
<u>6.2.</u>	Environmental precautions		
	Environmental precautions	See Section 12 for additional Ecological Information.	

Methods and material for containment and cleaning up 6.3.

	Methods for containment	Drovent furthe	r lookago or spillago if safe to do se
	Methods for cleaning up		r leakage or spillage if safe to do so. up with inert absorbent material. Take up mechanically, placing in appropriate
	Methous for cleaning up	containers for	
	Prevention of secondary hazards		nated objects and areas thoroughly observing environmental regulations.
5.4.	Reference to other sections		
	Reference to other sections	See section 8 for	more information See section 13 for more information
SEC	TION 7: Handling and stora	ge	
7.1.	Precautions for safe handling		
	Advice on safe handling	Handle in accorda	ance with good industrial hygiene and safety practice.
	General hygiene	Handle in accorda	ance with good industrial hygiene and safety practice.
	considerations		
.2.	Conditions for safe storage, includ		
	Storage Conditions		tightly closed in a dry, cool and well-ventilated place.
	Storage class (TRGS 510)	Storage class 10.	
.3.	Specific end use(s)		
	Specific use(s) TION 8: Exposure controls/ Control parameters	personal prot	
	TION 8: Exposure controls/	personal prot	
	TION 8: Exposure controls/ Control parameters Exposure Limits	personal prot This product, as s limits established	ection supplied, does not contain any hazardous materials with occupational exposu
	TION 8: Exposure controls/ Control parameters Exposure Limits Biological occupational exposure This product, as supplied, does no	personal prot This product, as s limits established limits	ection supplied, does not contain any hazardous materials with occupational exposu
	TION 8: Exposure controls/ Control parameters Exposure Limits Biological occupational exposure	personal prot This product, as s limits established limits t contain any hazar	ection supplied, does not contain any hazardous materials with occupational exposu I by the region specific regulatory bodies.
	TION 8: Exposure controls/ Control parameters Exposure Limits Biological occupational exposure This product, as supplied, does nor regulatory bodies.	personal prot This product, as s limits established limits t contain any hazar Norkers	ection supplied, does not contain any hazardous materials with occupational exposu I by the region specific regulatory bodies. rdous materials with biological limits established by the region-specific
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.1.	TION 8: Exposure controls/ Control parameters Exposure Limits Biological occupational exposure This product, as supplied, does nor regulatory bodies. Derived No Effect Level (DNEL) - V Derived No Effect Level (DNEL) - O Predicted No Effect Concentration Exposure controls Engineering controls Personal protective equipment Eye/face protection Hand protection	personal prot This product, as s limits established limits t contain any hazar Norkers General Public n (PNEC) Showers Eyewash stati Ventilation sy Wear safety g EN 166. Wear suitable No protective	ection supplied, does not contain any hazardous materials with occupational exposu I by the region specific regulatory bodies. rdous materials with biological limits established by the region-specific No information available. No information available. No information available. No information available. glasses with side shields (or goggles). Eye protection must conform to standar
3.1. 3.2.	TION 8: Exposure controls/ Control parameters Exposure Limits Biological occupational exposure This product, as supplied, does nor regulatory bodies. Derived No Effect Level (DNEL) - V Derived No Effect Level (DNEL) - O Predicted No Effect Concentration Exposure controls Engineering controls Personal protective equipment Eye/face protection Hand protection Skin and body protection	personal prot This product, as s limits established limits t contain any hazar Norkers General Public n (PNEC) Showers Eyewash stati Ventilation sy Wear safety g EN 166. Wear suitable No protective exceeded or i	ection supplied, does not contain any hazardous materials with occupational exposu I by the region specific regulatory bodies. rdous materials with biological limits established by the region-specific No information available. No information available. No information available. No information available. glasses with side shields (or goggles). Eye protection must conform to standar e gloves. Gloves must conform to standard EN 374. e protective clothing. (EN ISO 6529). e equipment is needed under normal use conditions. If exposure limits are

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

Property	<u>Values</u>	Remarks • Method
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
рН		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

<u>10.1.</u>	<u>Reactivity</u> Reactivity	None under normal use conditions.
<u>10.2.</u>	Chemical stability	
	Stability	Stable under normal conditions.
	Explosion data	
	Sensitivity to mechanical impact	None.
	Sensitivity to static discharge	None.
<u>10.3.</u>	Possibility of hazardous reactions	

	of hazardous reactions	None under normal processing.
10.4 Conditions	to avoid	
10.4. Conditions Conditions		None known based on information supplied.
conditions		None known based on mornadon supplied.
10.5. Incompatib		
Incompatil	ble materials	None known based on information supplied.
	decomposition products	Negeluseum besed en isferneties euselied
Hazardous	decomposition products	None known based on information supplied.
SECTION 11: T	oxicological informat	ion
11.1. Information	n on hazard classes as define	d in Regulation (EC) No 1272/2008
Information	n on likely routes of exposure	<u>e</u>
Product In	formation	
Inhala	tion Specific tes	t data for the substance or mixture is not available.
Eye co	ntact Specific tes	t data for the substance or mixture is not available. Contact with eyes may cause irritation.
Skin co	ontact Specific tes	t data for the substance or mixture is not available.
Ingest	i on Specific tes	st data for the substance or mixture is not available.
Symptoms	related to the physical, chem	nical and toxicological characteristics
Symptoms		None known.
Acute toxic	ity	
Numerical	measures of toxicity	
Based on av	vailable data, the classificatio	n criteria are not met.
Componen	t Information	
-		as chronic effects from short and long-term exposure
-	sion/irritation	Based on available data, the classification criteria are not met.
Serious ey	e damage/eye irritation	Based on available data, the classification criteria are not met.
	y 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.
		Based on available data, the classification criteria are not met.
Carcinoger	זוכודא	
Carcinoger Reproduct		Based on available data, the classification criteria are not met.
Reproduct		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Reproduct STOT - sing	ive toxicity	
Reproduct STOT - sing	ive toxicity gle exposure eated exposure	Based on available data, the classification criteria are not met.
Reproduct STOT - sing STOT - rep Aspiration	ive toxicity gle exposure eated exposure	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Reproduct STOT - sing STOT - rep Aspiration	ive toxicity gle exposure eated exposure hazard	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Reproduct STOT - sing STOT - rep Aspiration 11.2. Information	ive toxicity gle exposure eated exposure hazard n on other hazards	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Reproduct STOT - sing STOT - rep Aspiration 11.2. Information	ive toxicity gle exposure eated exposure hazard <u>n on other hazards</u> <u>Endocrine disrupting proper</u> Endocrine disrupting proper	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Reproduct STOT - sing STOT - rep Aspiration <u>11.2. Information</u> 11.2.1.	ive toxicity gle exposure eated exposure hazard <u>n on other hazards</u> <i>Endocrine disrupting proper</i>	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

12.1. Toxicity

	otoxicity	Based on available data, the classification criteria are not met. Based on available data, the
		classification criteria are not met.
Un	known aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.
2.2. Per	sistence and degradability	
Pei	rsistence and degradability	No information available.
2.3. Bio	accumulative potential	
Bio	oaccumulation	No information available.
2.4. Mo	bility in soil	
Mo	obility in soil	No information available.
2.5. Res	sults of PBT and vPvB assessme	<u>ent</u>
PB	T and vPvB assessment	The product does not contain any substance(s) classified as PBT or vPvB.
L2.6. End	docrine disrupting properties	
	docrine disrupting	This product does not contain any known or suspected endocrine disruptors.
pro	operties	
	ner adverse effects	
Ot	her adverse effects	No information available.
SECTION	N 13: Disposal consider	ations
1 3.1. Wa :	ste treatment methods	
	aste from residues/unused	Dispose of in accordance with local regulations. Dispose of waste in accordance with
pro	oducts	environmental legislation.
	ntaminated packaging	Do not reuse empty containers.
	aste codes / waste	According to the European Waste Catalog, Waste Codes are not product specific, but application
	signations according to EWC	specific. Waste codes should be assigned by the user based on the application for which the product was used.
/ A	1V V	product was used.
-		
	N 14: Transport informa	ation
SECTION MDG	N 14: Transport informa	Ation Not regulated
SECTION MDG 14.1	N 14: Transport informa	Ation Not regulated Not regulated
ECTION MDG 14.1 14.2	N 14: Transport informa UN number or ID number UN proper shipping name	Ation Not regulated Not regulated Not regulated Not regulated
SECTION MDG 14.1 14.2 14.3	N 14: Transport informa UN number or ID number UN proper shipping name Transport hazard class(es)	Ation Not regulated Not regulated Not regulated Not regulated Not regulated
SECTION 14.1 14.2 14.3 14.4	N 14: Transport informa UN number or ID number UN proper shipping name Transport hazard class(es) Packing group	Ation Not regulated Not applicable
SECTION 14.1 14.2 14.3 14.4 14.5	N 14: Transport informa UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards	Ation Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable
SECTION 14.1 14.2 14.3 14.4	N 14: Transport informa UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special Precautions for Users	Ation Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable
MDG 14.1 14.2 14.3 14.4 14.5 14.6	N 14: Transport informa UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special Precautions for Users Special Provisions	Ation Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable Not applicable Not applicable
SECTION 14.1 14.2 14.3 14.4 14.5	N 14: Transport informa UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special Precautions for Users	Ation Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable Not applicable Not applicable
SECTION 14.1 14.2 14.3 14.4 14.5 14.6 14.7	N 14: Transport informa 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 a	Ation Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable Not applicable Not applicable None None None None No information available
SECTION 14.1 14.2 14.3 14.4 14.5 14.6 14.7 RID	N 14: Transport informa 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 ar to IMO instruments	Ation Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable None Ccording No information available Not regulated
SECTION 14.1 14.2 14.3 14.4 14.5 14.6 14.7 RID 14.1	N 14: Transport information 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 ar to IMO instruments	Ation Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable None Ccording No information available Not regulated Not regulated Not regulated
SECTION 14.1 14.2 14.3 14.4 14.5 14.6 14.7 RID 14.1 14.2	N 14: Transport information 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 Maritime transport in bulk at to IMO instruments UN number UN number	Ation Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable Not applicable None None None None No information available Not regulated
SECTION 14.1 14.2 14.3 14.4 14.5 14.6 14.7 RID 14.1	N 14: Transport information 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 ar to IMO instruments	Ation Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable Not applicable None Ccording No information available Not regulated Not regulated Not regulated

	•	
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

SECTION 14: Transport 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) SubstancesvPvB: 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) 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
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.



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

roduct identifier Product Code(s)	Product Name	Synonyms
21210007		
21210007	IGH FR1 S5/PGM 01	None
	IGH FR1 S5/PGM 02	None
21210027	IGH FR1 S5/PGM 03	None
21210037	IGH FR1 S5/PGM 04	None
21210047	IGH FR1 S5/PGM 07	None
21210057	IGH FR1 S5/PGM 08	None
21210067	IGH FR1 S5/PGM 09	None
21210077	IGH FR1 S5/PGM 10	None
21210087	IGH FR1 S5/PGM 11	None
21210097	IGH FR1 S5/PGM 12	None
21210107	IGH FR1 S5/PGM 13	None
21210117	IGH FR1 S5/PGM 14	None
21210127	<i>IGH</i> FR2 S5/PGM 01	None
21210137	<i>IGH</i> FR2 S5/PGM 02	None
21210147	<i>IGH</i> FR2 S5/PGM 03	None
21210157	<i>IGH</i> FR2 S5/PGM 04	None
21210167	<i>IGH</i> FR2 S5/PGM 07	None
21210177	<i>IGH</i> FR2 S5/PGM 08	None
21210187	IGH FR2 S5/PGM 09	None
21210197	IGH FR2 S5/PGM 10	None
21210207	IGH FR2 S5/PGM 11	None
21210217	IGH FR2 S5/PGM 12	None
21210227	IGH FR2 S5/PGM 13	None
21210237	IGH FR2 S5/PGM 14	None
21210247	IGH FR3 S5/PGM 01	None
21210257	IGH FR3 S5/PGM 02	None
21210267	IGH FR3 S5/PGM 03	None
21210277	IGH FR3 S5/PGM 04	None
21210287	<i>IGH</i> FR3 S5/PGM 07	None
21210297	IGH FR3 S5/PGM 08	None
21210307	IGH FR3 S5/PGM 09	None
21210317	<i>IGH</i> FR3 S5/PGM 10	None
21210327	IGH FR3 S5/PGM 11	None
21210337	IGH FR3 S5/PGM 12	None
21210347	IGH FR3 S5/PGM 13	None
21210357	IGH FR3 S5/PGM 14	None
21220007	IGK S5/PGM 01	None
21220017	IGK S5/PGM 02	None
21220027	IGK S5/PGM 04	None
21220037	IGK S5/PGM 08	None
21220037	IGK 55/PGM 09	None
21220057	<i>IGK</i> S5/PGM 10	None

None

None

None

	21220097	<i>IGK</i> S5/PGM 14	None
	21220107	<i>IGK</i> S5/PGM 16	None
	21220117	<i>IGK</i> S5/PGM 17	None
	22270007	TRG S5/PGM 01	None
	22270017	TRG S5/PGM 02	None
	22270027	TRG S5/PGM 03	None
	22270037	<i>TRG</i> S5/PGM 04	None
	22270047	TRG S5/PGM 07	None
	22270057	TRG S5/PGM 08	None
	22270067	TRG S5/PGM 09	None
	22270077	TRG S5/PGM 10	None
	22270087	TRG S5/PGM 11	None
	22270097	TRG S5/PGM 12	None
	22270107	TRG S5/PGM 13	None
	22270117	TRG S5/PGM 14	None
2.	Pure substance/mixture Relevant identified uses of the substance or i	Mixture mixture and uses advised against	
2.	Pure substance/mixture Relevant identified uses of the substance or i		
	Relevant identified uses of the substance or a Recommended use	<u>mixture and uses advised against</u> Assay reagent	
	Relevant identified uses of the substance or	mixture and uses advised against	
	Relevant identified uses of the substance or a Recommended use	<u>mixture and uses advised against</u> Assay reagent For professional use only	
	Relevant identified uses of the substance or Recommended use Uses advised against	mixture and uses advised against Assay reagent For professional use only et Supplier	<u>Distributor</u>
	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data shee	mixture and uses advised against Assay reagent For professional use only et Supplier	<u>Distributor</u> Invivoscribe Technologies, SARL
	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data shee Importer	mixture and uses advised against Assay reagent For professional use only et Supplier Invivoscribe, Inc.	
	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data sheet Importer Invivoscribe Technologies Zeppelinstrasse 1	mixture and uses advised against Assay reagent For professional use only et Supplier Invivoscribe, Inc. 10222 Barnes Canyon Rd	Invivoscribe Technologies, SARL
8	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data sheet Importer Invivoscribe Technologies	mixture and uses advised against Assay reagent For professional use only et Supplier Invivoscribe, Inc. 10222 Barnes Canyon Rd Bldg. 1	Invivoscribe Technologies, SARL c/o Ficorec Domiciliation Services
8	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data sheet Importer Invivoscribe Technologies Zeppelinstrasse 1 85399 Hallbergmoos	mixture and uses advised against Assay reagent For professional use only et Supplier Invivoscribe, Inc. 10222 Barnes Canyon Rd Bldg. 1 San Diego, CA 92121	Invivoscribe Technologies, SARL c/o Ficorec Domiciliation Services 132, Boulevard Michelet
8	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data sheet Importer Invivoscribe Technologies Zeppelinstrasse 1 85399 Hallbergmoos Germany	mixture and uses advised against Assay reagent For professional use only et Supplier Invivoscribe, Inc. 10222 Barnes Canyon Rd Bldg. 1 San Diego, CA 92121 Phone: +1 858-224-6600	Invivoscribe Technologies, SARL c/o Ficorec Domiciliation Services 132, Boulevard Michelet Hall Nord – 5ème étage
	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data sheet Importer Invivoscribe Technologies Zeppelinstrasse 1 85399 Hallbergmoos Germany	mixture and uses advised against Assay reagent For professional use only et Supplier Invivoscribe, Inc. 10222 Barnes Canyon Rd Bldg. 1 San Diego, CA 92121 Phone: +1 858-224-6600	Invivoscribe Technologies, SARL c/o Ficorec Domiciliation Services 132, Boulevard Michelet Hall Nord – Sème étage 13008 Marseille FRANCE
3.	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data sheet Importer Invivoscribe Technologies Zeppelinstrasse 1 85399 Hallbergmoos Germany Phone: +49 89 904 299 800	mixture and uses advised against Assay reagent For professional use only et Supplier Invivoscribe, Inc. 10222 Barnes Canyon Rd Bldg. 1 San Diego, CA 92121 Phone: +1 858-224-6600	Invivoscribe Technologies, SARL c/o Ficorec Domiciliation Services 132, Boulevard Michelet Hall Nord – Sème étage 13008 Marseille
8	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data sheet Importer Invivoscribe Technologies Zeppelinstrasse 1 85399 Hallbergmoos Germany	mixture and uses advised against Assay reagent For professional use only et Supplier Invivoscribe, Inc. 10222 Barnes Canyon Rd Bldg. 1 San Diego, CA 92121 Phone: +1 858-224-6600	Invivoscribe Technologies, SARL c/o Ficorec Domiciliation Services 132, Boulevard Michelet Hall Nord – Sème étage 13008 Marseille FRANCE
3.	Relevant identified uses of the substance or in Recommended use Uses advised against Details of the supplier of the safety data sheet Importer Invivoscribe Technologies Zeppelinstrasse 1 85399 Hallbergmoos Germany Phone: +49 89 904 299 800 For further information, please contact	mixture and uses advised against Assay reagent For professional use only et Supplier Invivoscribe, Inc. 10222 Barnes Canyon Rd Bldg. 1 San Diego, CA 92121 Phone: +1 858-224-6600	Invivoscribe Technologies, SARL c/o Ficorec Domiciliation Services 132, Boulevard Michelet Hall Nord – Sème étage 13008 Marseille FRANCE

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

IGK S5/PGM 11

IGK S5/PGM 12

IGK S5/PGM 13

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.

21220067

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SECTION 2: Hazards identification

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

[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 >=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 Effects of Exposure None known. No information available.

4.3. Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 5: Firefighting measures	5
Unsuitable extinguishing media	No information available.
5.2. Special hazards arising from the subs	stance or mixture
Specific hazards arising from the che	
5.3. Advice for firefighters	
Special protective equipment and pro	
for fire-fighters	turnout gear. Use personal protection equipment.
SECTION 6: Accidental release mo	easures
5.1. Personal precautions, protective equ	
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.
5.3. Methods and material for containme	
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 appropriat containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
5.4. Reference to other sections Reference to other sections	See section 8 for more information See section 13 for more information
Reference to other sections	See section 8 for more information see section 15 for more information
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	Uppedia in appared appart with good industrial business and enfatty practice
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	g 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

ON 8: Exposure c	ontrols/person	al protection			
Dimethyl sulfoxide 67-68-5	-	-	TWA: 50 ppm TWA: 160 mg/m STEL: 100 ppm STEL: 320 mg/m ²	STEL: 150 ppm	TWA: 50 pp iho*
Chemical name	France	Germany TRO	GS Germany DFG	Greece	Hungary
Dimethyl sulfoxide 67-68-5	-	TWA: 50 ppr TWA: 160 mg/ H*			-
Chemical name	Ireland	Italy MDLPS	italy AIDII	Latvia	Lithuania
Dimethyl sulfoxide 67-68-5	-	-	-	-	O* TWA: 50 pp TWA: 150 mg STEL: 150 pp STEL: 500 mg,
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	Swed	en	Switzerland	U	nited Kingdom
Dimethyl sulfoxide 67-68-5	NGV: 50 NGV: 150 Vägledande KG Vägledande KGV H*	mg/m ³ V: 150 ppm	TWA: 50 ppm TWA: 160 mg/n STEL: 100 ppm STEL: 320 mg/n H*	า ³ เ	-

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/m ³ [4] [6]
67-68-5			265 mg/m ³ [5] [6]
Notes			
[4]	Systemic health ef	ffects.	
[5]	Local health effect	ts.	
[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 ³ [5] [6]
Notes			
[4]	Systemic health e	ffects.	
[5]	Local health effec	ts.	
[6]	Long term.		
[7]	Short term.		

SECTION 8: Exposure controls/personal protection

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	-	-

Predicted No Effect Concentration (PNEC)

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid
Physical state	Liquid
Color	Colorless. Light blue, light yellow, light pink. or light orange
Odor	Odorless
Odor threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing p	oint	No data available
Initial boiling point and be	oiling range	No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or e limits	explosive	No data available
Lower flammability or e limits	explosive	No data available
Flash point		No data available
Autoignition temperature		No data available
Decomposition temperate	ure	No data available
рН	7 - 9.5	No data available
pH (as aqueous solution	1)	No data available

SECTION 9: Physical and chemical properties

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
	No information available

SECTION 10: Stability and reactivity

<u>10.1.</u>	Reactivity	
	Reactivity	None under normal use conditions.
10.2	Chamical stability	
	Chemical stability	· · · · · · · ·
	Stability	Stable under normal conditions.
	Explosion data	
	Sensitivity to mechanical impact	None.
	Sensitivity to static discharge	None.
<u>10.3.</u>	Possibility of hazardous reactions	
	Possibility of hazardous reactions	None under normal processing.
<u>10.4.</u>	Conditions to avoid	
	Conditions to avoid	None known based on information supplied.
<u>10.5.</u>	Incompatible materials	
	Incompatible materials	None known based on information supplied.
10.6.	Hazardous decomposition products	
	Hazardous decomposition products	None known based on information supplied.
SECT	ION 11: Toxicological information	

<u>11.1.</u> 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.

SECTION 11: Toxicological information

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 characteristicsSymptomsNone 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.
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

SECTI	ECTION 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 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

IMD	<u>G</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	No information available
		to IMO instruments	
DID			No. to a second state of
RID			Not regulated
<u>RID</u>	14.1	UN number	Not regulated Not regulated
<u>RID</u>		UN number UN proper shipping name	•
<u>RID</u>	14.1		Not regulated
<u>RID</u>	14.1 14.2	UN proper shipping name	Not regulated Not regulated
<u>RID</u>	14.1 14.2 14.3	UN proper shipping name Transport hazard class(es)	Not regulated Not regulated Not regulated
<u>RID</u>	14.1 14.2 14.3 14.4	UN proper shipping name Transport hazard class(es) Packing group	Not regulated Not regulated Not regulated Not applicable
<u>RID</u>	14.1 14.2 14.3 14.4 14.5 14.6	UN proper shipping name Transport hazard class(es) Packing group Environmental hazards	Not regulated Not regulated Not regulated Not applicable
<u>RID</u>	14.1 14.2 14.3 14.4 14.5 14.6	UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special Precautions for Users	Not regulated Not regulated Not regulated Not applicable Not applicable
ADE	14.1 14.2 14.3 14.4 14.5 14.6 Specia	UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special Precautions for Users	Not regulated Not regulated Not regulated Not applicable Not applicable

SECTION	14: Transport informa	tion
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	
France	
Occupational Illnesses (R-463-3, France)	
Chemical name	French RG number
Dimethyl sulfoxide	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

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 met	hod
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 met	hod

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
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