

# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 2021-09-28

Revision Number 9

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

1.1. Product identifier

Product Code SD0975

Product Name BcaBEST™ DNA Polymerase

 Pure substance/mixture
 Mixture

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

Identified uses No information available

Uses advised against No information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier USA: Takara Bio USA, Inc. 1290 Terra Bella Avenue Mountain View, CA 94043 Phone: 800.662.2566/888.251.6618 Web: www.takarabio.com

Europe: Takara Bio Europe S.A.S. 34, Rue de la Croix de Fer 78100 Saint-Germain-en-Laye France Phone: +33 1 39 04 68 80 Web: www.takarabio.com

Europe: Takara Bio Europe AB Arvid Wallgrens Backe 20, SE-413 46 Goteborg, Sweden Phone: +46 31 758 09 00 Web: www.takarabio.com

India: DSS Takara Bio India Pvt. Ltd. A-5 Mohan Co-operative Industrial Estate, Mathura Road, New Delhi 110044, India Phone: +91 11 30886717

For further information, please contact:

#### 1.4. Emergency telephone number

Emergency telephone

In case of emergency, call PERS (Professional Emergency Resource Services) 1-800-633-8253 (US) or 801-629-0667 (international).

## **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Acute toxicity - Oral

Category 4 - (H302)

#### 2.2. Label elements



Hazard statements H302 - Harmful if swallowed

#### Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/ container to an approved waste disposal plant

#### Additional information

This product requires tactile warnings if supplied to the general public.

#### 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Ethylene glycol 107-21-1	50 - 60	No data available	203-473-3	Acute Tox. 4 (H302)	-	-	-

#### 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	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
Ethylene glycol 107-21-1	4700	10600	3.75	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

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
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. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.
4.2. Most important symptoms and	effects, both acute and delayed

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

Symptoms	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.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards arising from the chemical	No information available.
5.3. Advice for firefighters	

# Special protective equipment and<br/>precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout<br/>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	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	Ensure adequate ventilation.			
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. Keep out of the reach of children.			

#### 7.3. Specific end use(s)

Identified uses

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

## 8.1. Control parameters

## **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ethylene glycol	TWA 20 ppm	H*	D*	S*	S*
107-21-1	TWA 52 mg/m <sup>3</sup>	STEL 20 ppm	Maximum Limit	STEL 40 ppm	STEL 40 ppm
	STEL 40 ppm	STEL 52 mg/m <sup>3</sup>	Value 40 ppm	STEL 104 mg/m <sup>3</sup>	STEL 104 mg/m 3
	STEL 104 mg/m <sup>3</sup>	TWA 10 ppm	Maximum Limit	TWA 52 mg/m <sup>3</sup>	TWA 20 ppm
	S*	TWA 26 mg/m <sup>3</sup>	Value 104 mg/m <sup>3</sup>	TWA 20 ppm	TWA 52 mg/m <sup>3</sup>
		-	Maximum Limit		
			Value 20 ppm		
			Maximum Limit		
			Value 52 mg/m 3		
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Chemical name Ethylene glycol	Cyprus *	Czech Republic TWA: 50 mg/m <sup>3</sup>	TWA 10 ppm	Estonia A*	Finland TWA 20 ppm
					TWA 20 ppm TWA 50 mg/m <sup>3</sup>
Ethylene glycol	*	TWA: 50 mg/m <sup>3</sup>	TWA 10 ppm	A* STEL 40 ppm STEL 104 mg/m <sup>3</sup>	TWA 20 ppm
Ethylene glycol	STEL: 40 ppm	TWA: 50 mg/m <sup>3</sup>	TWA 10 ppm TWA 26 mg/m <sup>3</sup>	A* STEL 40 ppm STEL 104 mg/m <sup>3</sup> TWA 20 ppm	TWA 20 ppm TWA 50 mg/m <sup>3</sup>
Ethylene glycol	* STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>	TWA 10 ppm TWA 26 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	A* STEL 40 ppm STEL 104 mg/m <sup>3</sup>	TWA 20 ppm TWA 50 mg/m <sup>3</sup> STEL 40 ppm
Ethylene glycol	* STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> TWA: 20 ppm	TWA: 50 mg/m <sup>3</sup>	TWA 10 ppm TWA 26 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	A* STEL 40 ppm STEL 104 mg/m <sup>3</sup> TWA 20 ppm	TWA 20 ppm TWA 50 mg/m <sup>3</sup> STEL 40 ppm STEL 100 mg/m <sup>3</sup>
Ethylene glycol 107-21-1	* STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup> Ceiling: 100 mg/m <sup>3</sup> *	TWA 10 ppm TWA 26 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> H*	A* STEL 40 ppm STEL 104 mg/m <sup>3</sup> TWA 20 ppm TWA 52 mg/m <sup>3</sup>	TWA 20 ppm TWA 50 mg/m <sup>3</sup> STEL 40 ppm STEL 100 mg/m <sup>3</sup> iho*
Ethylene glycol 107-21-1 Chemical name	* STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> France	TWA: 50 mg/m <sup>3</sup> Ceiling: 100 mg/m <sup>3</sup> * Germany	TWA 10 ppm TWA 26 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> H* Germany MAK	A* STEL 40 ppm STEL 104 mg/m <sup>3</sup> TWA 20 ppm TWA 52 mg/m <sup>3</sup> Greece	TWA 20 ppm TWA 50 mg/m <sup>3</sup> STEL 40 ppm STEL 100 mg/m <sup>3</sup> iho* Hungary

## SD0975 - BcaBEST™ DNA Polymerase

	STEL 104 mg/m <sup>3</sup> P*			STEL 1	125 mg/m <sup>3</sup>	
Chemical name	Ireland	Italy	Italy REL		atvia	Lithuania
Ethylene glycol 107-21-1	TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> Skin	10 ppm TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed; sum of vapor and aerosol, exposure factor 2); 26 mg/m <sup>3</sup> TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed; sum of vapor and aerosol, exposure factor 2) TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> Pelle*	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m <sup>3</sup>	TWA TWA STEL	20 ppm 52 mg/m <sup>3</sup> 40 ppm 104 mg/m <sup>3</sup> S*	S* TWA 10 ppm TWA 25 mg/m <sup>3</sup> STEL 20 ppm STEL 50 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands		orway	Poland
Ethylene glycol 107-21-1	S* STEL 40 ppm STEL 104 mg/m <sup>3</sup> TWA 20 ppm TWA 52 mg/m <sup>3</sup>	* STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup>	Huid* STEL 104 mg/m <sup>3</sup> TWA 52 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	TWA STEL 1 STEL	20 ppm 52 mg/m <sup>3</sup> S* 104 mg/m <sup>3</sup> 40 ppm	TWA 15 mg/m <sup>3</sup> STEL 50 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia		ovenia	Spain
Ethylene glycol 107-21-1	TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> Ceiling 100 mg/m <sup>3</sup> C(A4) P*	P* STEL 40 ppm STEL 104 mg/m <sup>3</sup> TWA 20 ppm TWA 52 mg/m <sup>3</sup>	Ceiling 104 mg/m <sup>3</sup> S* TWA 20 ppm TWA 52 mg/m <sup>3</sup>	STEL 1 TWA	40 ppm 104 mg/m <sup>3</sup> 20 ppm 52 mg/m <sup>3</sup> S*	TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> S*
Chemical name		weden	Switzerland			ted Kingdom
Ethylene glycol 107-21-1	TLV Binding S	10 ppm 25 mg/m <sup>3</sup> TEL 40 ppm EL 104 mg/m <sup>3</sup> A*	H*         STEL 104           TWA 10 ppm         STEL 30 r           TWA 26 mg/m <sup>3</sup> TWA 10 n           STEL 20 ppm         TWA 20           STEL 52 mg/m <sup>3</sup> TWA 52 n		EL 40 ppm L 104 mg/m <sup>3</sup> EL 30 mg/m <sup>3</sup> A 10 mg/m <sup>3</sup> VA 20 ppm A 52 mg/m <sup>3</sup> Skin	

#### **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)No information available.Predicted No Effect ConcentrationNo information available.(PNEC)No information available.

8.2. Exposure controls

No special protective equipment required.
No special protective equipment required.
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Handle in accordance with good industrial hygiene and safety practice.
No information available.

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

9.1. Information on basic physical a	and chemical properties	
Physical state	Liquid	
Appearance	Clear, colorless	
Color	Clear	
Odor	Unpleasant.	
Odor Threshold	No information available	
Drowerty	Values	Demontos - Mathad
Property Molting point (frequing point	<u>Values</u> No data available	Remarks • Method None known
Melting point / freezing point		
Boiling point/boiling range (°C)	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air	Nie dete eventiekie	None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	0
Flash point	No data available	Open cup
Autoignition temperature	398 °C	None known
Decomposition temperature		None known
рН	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic Viscosity	No data available	None known
Water solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	No data available	None known
Bulk Density	No data available	
Liquid Density	No data available	
Vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information 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

No information available.			
Stable under normal conditions.			
t None. None.			
ions			
None under normal processing.			
None known based on information supplied.			
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.
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. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)898.20 mg/kgATEmix (dermal)19,041.50 mg/kgATEmix (inhalation-dust/mist)6.7432 mg/l

#### Unknown acute toxicity

1.64545 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

#### **Component Information**

## SD0975 - BcaBEST™ DNA Polymerase

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Ethylene glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat) 6 h	
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Skin corrosion/irritation	No information available.			
Serious eye damage/eye irritati	on No information available.			
Respiratory or skin sensitizatio	n No information available.			
Germ cell mutagenicity	No information available.			
Carcinogenicity	No information available.			
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard No information available.				
11.2. Information on other haza	ards			
11.2.1. Endocrine disrupting properties				
Endocrine disrupting properties	<b>s</b> No information available.			
11.2.2. Other information				
Other adverse effects	No information available.			
SECTION 12: Ecological information				

## 12.1. Toxicity

#### Ecotoxicity

## Unknown aquatic toxicity

Contains 0.64545 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene glycol	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static 27540: 96 h Lepomis	-	46300: 48 h Daphnia magna mg/L EC50

macrochirus mg/L LC50	
static	
40761: 96 h	
Oncorhynchus mykiss	
mg/L LC50 static	
41000: 96 h	
Oncorhynchus mykiss	
mg/L LC50	

#### 12.2. Persistence and degradability

Persistence and degradability No information available.

#### 12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

#### **Component Information**

Chemical name	Partition coefficient
Ethylene glycol	-1.93

#### 12.4. Mobility in soil

Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

## PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Ethylene glycol	The substance is not PBT / vPvB PBT assessment does
	not apply

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 12.7. 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.

## **SECTION 14: Transport information**

IATA Notes	No components found suitable for Technical Name.		
14.1 UN number or ID number	UN3082		
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.		
14.3 Transport hazard class(es)	9		
14.4 Packing group			
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III		
14.5 Environmental hazards	Yes		

14.6 Special precautions for user Special Provisions ERG Code	A97, A158, A197 9L
IMDG Notes 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions F-A, S-F 14.7 Maritime transport in bulk according to IMO instruments	No components found suitable for Technical Name. UN3082 Environmentally hazardous substance, liquid, n.o.s., Marine Pollutant 9 III UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III, Marine Pollutant Yes 274, 335, 969 No information available
RID Notes 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code	No components found suitable for Technical Name. UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III Yes 274, 335, 375, 601 M6
ADR Notes 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code Tunnel restriction code	No components found suitable for Technical Name. UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III, (-) Yes 274, 335, 601, 375 M6 (-)

## **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	Title
Ethylene glycol 107-21-1	RG 84	-

#### **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	
TSCA	-
DSL/NDSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECL	-
PICCS	-
AICS	-

Legend:

 TSCA
 - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL
 - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS
 - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

 ENCS
 - Japan Existing and New Chemical Substances

 IECSC
 - China Inventory of Existing Chemical Substances

 KECL
 - Korean Existing and Evaluated Chemical Substances

 PICCS
 - Philippines Inventory of Chemicals and Chemical Substances

 AICS
 - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

Chemical Safety Assessment No information available

## **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

#### Legend

SVHC: Substances of Very High Concern for Authorization:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	Time weighted average	STEL	Short term exposure limit
Ceiling	Maximum limit value	*	Skin designation
**	Hazard Designation	+	Sensitizers

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		

## SD0975 - BcaBEST™ DNA Polymerase

Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitization	Calculation method	
Skin sensitization	Calculation method	
Mutagenicity	Calculation method	
Carcinogenicity	Calculation method	
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) 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) 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 **Revision Date** 2021-09-28

## This safety data sheet complies with the requirements of 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.

#### Notice to Purchaser:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval. Your use of this product is also subject to compliance with the licensing requirements described on the product's web page. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements. All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions.

#### End of Safety Data Sheet