

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

Revision Date 03-Oct-2024
Revision Number 1.1

## 100-0343 - STEMdiff™ Sensory Neuron Differentiation Supplement

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Document Number 10000012580

**Product Name** STEMdiff™ Sensory Neuron Differentiation Supplement

Pure substance/mixture Mixture

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

Recommended Use Laboratory reagent

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

#### **Manufacturer**

STEMCELL Technologies SARL

40 Rue des Berges, Miniparc Polytec, Bâtiment Sirocco, 38000 Grenoble, France

+33 (0) 4 76 04 75 30

STEMCELL Technologies Germany GmbH

Stolberger Str. 200, 50933, Köln, Germany

+33 (0) 4 76 04 75 30

STEMCELL Technologies UK Ltd.

Building 7100, Cambridge Research Park, Beach Drive, Waterbeach, Cambridge, UK, CB25 9TL

+33 (0) 4 76 04 75 30

For further information, please contact

#### 1.4. Emergency telephone number

Emergency Telephone No information available

Emergency Telephone - §45 - (EC)1	272/2008
Europe	112

## **Section 2: HAZARDS IDENTIFICATION**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]



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#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

**Hazard statements** 

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EUH210 - Safety data sheet available on request

### 2.3. Other hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Synonym

Not applicable

#### 3.2 Mixtures

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

		- 3		- 1	
Chemical name	EC No.	CAS No.	Weight-%	Classification according to	REACH
				Regulation (EC) No.	Registration
				1272/2008 [CLP]	Number
dimethyl sulfoxide	200-664-3	67-68-5	1 - 10*	Skin Irrit. 2 (H315)	No data available
				Eye Irrit. 2A (H319)	
				Flam. Liq. 3 (H226)	

Full text of H- and EUH-phrases: see section 16

## **Section 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

**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 Clean mouth with water and drink afterwards plenty of water.



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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

**Section 5: FIRE-FIGHTING MEASURES** 

5.1. Extinguishing media

surrounding environment.

Unsuitable Extinguishing Media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment 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.

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.

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**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

Store in accordance with information listed on the Product Information Sheet (PIS).

### 7.3. Specific end use(s)

**Identified Uses** 

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

### **Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
dimethyl sulfoxide	-	-	=	-	TWA: 50 ppm
67-68-5					TWA: 160 mg/m <sup>3</sup>
					H*
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
dimethyl sulfoxide	-	-	=	TWA: 50 ppm	TWA: 50 ppm
67-68-5				iho*	TWA: 160 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
dimethyl sulfoxide	TWA: 50 ppm	TWA: 50 ppm	=	-	=
67-68-5	TWA: 160 mg/m <sup>3</sup>	TWA: 160 mg/m <sup>3</sup>			
	H*	STEL: 100 ppm			
		STEL: 320 mg/m <sup>3</sup>			
		H*			



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**Derived No Effect Level (DNEL)** No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

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.

Handle in accordance with good industrial hygiene and safety practice. **General hygiene considerations** 

No information available. **Environmental exposure controls** 

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Physical state Liquid **Appearance** Clear

No information available Color No data available. Odor **Odor threshold** No data available

**Property** Values Remarks • Method

Hq No data available None known No data available None known Melting point / freezing point No data available None known **Boiling point / boiling range** No data available None known Flash point **Evaporation rate** No data available None known No data available Flammability (solid, gas) None known Flammability Limit in Air None known

Upper flammability limit: No data available



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Lower flammability limit: No data available

Vapor pressure No data available None known No data available Vapor density None known No data available Relative density None known Water solubility No data available None known Solubility(ies) No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known No data available None known Kinematic viscosity **Dynamic viscosity** No data available None known

**Explosive properties**No information available

Oxidizing properties No information available

9.2. Other information

Softening point
Molecular weight
Molecular formula
VOC Content (%)
Liquid Density
No information available

### Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

Stability Stable under recommended transport or storage 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.

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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 toxicological effects

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

Causes mild skin irritation.

Ingestion

Specific test data for the substance or mixture is not available.

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 document

**ATEmix (oral)** 1,446,275.70 **ATEmix (dermal)** 2,044,206.00

Unknown acute toxicity

1.99999835 % of the mixture consists of ingredient(s) of unknown toxicity.

0.04324835 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

1.99999835 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Product Information



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**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
dimethyl sulfoxide			> 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
 No information available.

 Product Information

 Serious eye damage/eye irritation
 No information available.

Product Information

Respiratory or skin sensitization No information available.

Product Information

Germ cell mutagenicity

No information available.

Product Information

Carcinogenicity No information available.

Product Information

**Reproductive toxicity** No information available.

Product Information

STOT - single exposure

No information available.

Product Information

STOT - repeated exposure No information available.

Product Information

**Aspiration hazard** No information available.

## **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity** 

**Unknown aquatic toxicity**Contains 0.04325 % of components with unknown hazards to the aquatic environment.

Product Information				
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea



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dimethyl sulfoxide

- 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** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient	
dimethyl sulfoxide	-1.35	

### 12.4. Mobility in soil

**Mobility in soil** No information available.

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

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment	
dimethyl sulfoxide	The substance is not PBT / vPvB PBT assessment does	
	not apply	

#### 12.6. 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.



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Contaminated packaging Do not reuse empty containers.

## **Section 14: TRANSPORT INFORMATION**

#### **IMDG**

14.1 UN Number Not regulated Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) 14.4 Packing Group Not regulated 14.5 Marine pollutant Not applicable None

14.6 Special Provisions

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

RID	
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 regulated
14.5 Environmental hazard	Not applicable
	• •

14.6 Special Provisions None

ADR	
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 regulated
14.5 Environmental hazard	Not applicable
4400	N.I

14.6 Special Provisions None

<u>IATA</u>	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 regulated
14.5 Environmental hazard	Not applicable

14.6 Special Provisions None

## **Section 15: REGULATORY INFORMATION**

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

National regulations



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#### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
dimethyl sulfoxide	RG 84	-
67-68-5		

#### **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	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
dimethyl sulfoxide - 67-68-5	Use restricted. See entry 75.	

### **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

## **International Inventories**

Does not comply **TSCA DSL/NDSL** Does not comply **EINECS/ELINCS** Does not comply Does not comply **ENCS IECSC** Does not comply **KECL** Does not comply **PICCS** Does not comply **AICS** Does not comply

#### 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



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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

Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapor

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

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