

## SAFETY DATA SHEET

ACCORDING TO US CFR 1910.1200

Revision: N/A Effective Date: 2014-10-28

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

1.1 Product identifier

Product Name NeuroFluor™ CDr3

Molecule Name CDr3

 $\begin{array}{lll} \text{Chemical formula} & & \text{C}_{25}\text{H}_{24}\text{BCl}_{3}\text{F}_{2}\text{N}_{2}\text{O}_{4} \\ \text{CAS No.} & & \text{1357577-75-3} \end{array}$ 

Catalog No. 01800 (25  $\mu$ g as 100  $\mu$ M liquid, dissolved in 0.5 mL

Dimethyl sulfoxide, DMSO).

EINECS No. None assigned.

1.2 Recommended use of the chemical and

restrictions on use

Identified use(s) Membrane-permeable fluorescent probe derivative of

BODIPY FL (4,4-difluoro- 5,7-dimethyl-4-bora-3a,4a-diazas-indacene-3-propionic acid) that binds to fatty acid binding protein 7 (FABP7) for the detection and isolation of viable

neural stem/progenitor cells.

Uses advised against None known.

1.3 Details of the supplier of the Safety Data Sheet

Company Identification STEMCELL Technologies Inc.

Suite 500-1618 Station Street

Vancouver, British Columbia V6A 1B6 Canada.

 Telephone
 1-604-877-0713

 Fax
 1-800-567-2899

 E-Mail (competent person)
 info@stemcell.com

1.4 Emergency telephone number

Toll-free 1-800-667-0322

#### 2. SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

US CFR 1910.1200 Flam. Liq. 4: Combustible liquid.

2.2 Label elements

Product Name NeuroFluor™ CDr3

Hazard pictogram(s) None.
Signal word(s) Warning.

Hazard statement(s) H227: Combustible liquid.

Precautionary statement(s) P210: Keep away from flames and hot surfaces. - No

smoking.

P280: Wear protective gloves/eye protection/face protection. P370+P378: In case of fire: Use water spray, foam, dry

powder or CO<sub>2</sub> for extinction.

P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents/container to: Suitable refuse site.

Additional Information NOTE: The toxicological properties of this product have not

been fully evaluated.

Page: 1/6



2.3 Other hazards May cause irritation to skin, eyes and respiratory system.

2.4 Additional Information None

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS** 3.

#### 3.1 **Mixtures**

Hazardous Ingredient(s)	CAS No.	%W/W
DMSO	67-68-5	95
CDr3	1357577-75-3	5

#### 3.2 **Additional Information**

None

#### 4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

> Inhalation If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing. If symptoms

persist, obtain medical attention.

Skin Contact Wash skin with soap and water. If skin irritation occurs, get

medical advice/attention.

Eye Contact Flush eyes with water for at least 15 minutes while holding

eyelids open. If eye irritation persists, get medical

advice/attention.

Ingestion Wash out mouth with water and give 200-300 ml (half a pint)

of water to drink. If symptoms develop, obtain medical

attention.

4.2 Most important symptoms and effects, both

acute and delayed

None known.

4.3 Indication of any immediate medical attention

and special treatment needed

Unlikely to be required but if necessary treat

symptomatically.

#### 5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 **Extinguishing Media** 

> Suitable Extinguishing Media In case of fire, use water spray, foam, dry powder or CO2 for

extinction.

Unsuitable Extinguishing Media

None known.

Special hazards arising from the substance or

5.2 mixture None known.

5.3 Advice for fire-fighters

6.2

Fire fighters should wear complete protective clothing

including self-contained breathing apparatus.

#### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 

protection/face protection.

emergency procedures

No environmental hazards have been reported or known.

**Environmental precautions** 

Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up

Clear up spillages. Transfer to a container for disposal.

Page: 2/6



**6.4 Reference to other sections** See Also Section 8, 13

#### 7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling General hygiene measures for the handling of chemicals are

applicable. Ensure adequate ventilation. Wear protective gloves/eye protection/face protection. Do not eat, drink or smoke when using this product. Wash hands thoroughly

after handling.

None known.

7.2 Conditions for safe storage, including any

incompatibilities

Store in a well-ventilated place. Keep cool. Keep away from flames and hot surfaces. - No smoking.

flames and hot surfaces. - No smoking -20°C

Storage Temperature Incompatible materials

#### 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
DMSO	67-68-5	-	-	-	-	NIOSH
		-	-	-	-	OSHA
CDr3	1357577-75-3	-	-	-	-	NIOSH
		-	-	-	-	OSHA

NIOSH = National Institute of Occupational Safety & Health OSHA = Occupational Safety and Health Administration

**8.2** Appropriate engineering controls Provide adequate ventilation. A washing facility/water for

eye and skin cleaning purposes should be present.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection Wear: Goggles.

Skin protection (Hand protection/ Other) Wear: Laboratory coat, Gloves.

Respiratory protection Handling of larger amounts: Wear suitable respiratory protective equipment.

Thermal hazards Not applicable.

#### 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical

properties

Appearance Liquid.
Color Magenta.
Odor Odorless.

Page: 3/6



Odor Threshold Not available.
pH Not available.
Melting Point/Freezing Point 19°C (DMSO).

Initial boiling point and boiling range 189°C @ 1013 hPa (DMSO).

Flash point 87°C (DMSO).
Evaporation rate Not available.
Flammability (solid, gas) Non-flammable.
Upper/lower flammability or explosive limits Not applicable.

Vapor pressure 0.56 hPa @ 20°C (DMSO).

Vapor density
Relative density
Solubility (Water)
Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition Temperature
Not available.
Not available.

Viscosity 2.14 mPa•s @ 20°C (DMSO).

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

9.2 Other information

Molecular weight 572 g/mol (CDr3). Purity >96% (CDr3).

#### 10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions.
 10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions No hazardous reactions known if used for its intended

purpose.

10.4 Conditions to avoid Keep away from flames and hot surfaces.

10.5 Incompatible materials None known.

10.6 Hazardous Decomposition Product(s) No hazardous decomposition products known.

#### 11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Low acute toxicity.

Irritation May cause irritation to skin, eyes and respiratory system.

Corrosivity Not classified.

**Sensitization** It is not a skin sensitizer. **Repeated dose toxicity** None anticipated.

**Carcinogenicity** No evidence of carcinogenicity.

Mutagenicity There is no evidence of mutagenic potential.

**Toxicity for reproduction Aspiration hazard**None anticipated.

None anticipated.

11.2 Other information To the best of our knowledge, the chemical, physical and

toxicological properties have not been thoroughly

investigated.

#### 12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
 12.2 Persistence and degradability
 No environmental hazards have been reported or known.
 The product is biodegradable. Unlikely to persist.

12.3 Bioaccumulative potential The product has low potential for bioaccumulation.

**12.4 Mobility in soil** Soluble in water. The product is predicted to have high

mobility in soil.

12.5 Other adverse effects None known.



#### 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
 13.2 Additional Information
 Dispose of contents/container to: Suitable refuse site.
 Disposal should be in accordance with local, provincial/state or national legislation.

#### 14. SECTION 14: TRANSPORT INFORMATION

#### US D.O.T. and Candadian TDG Classification

This product is 0.5 mL packaged in a 2 mL bottle, which is not regulated.

14.1 **UN** number Not applicable. 14.2 **UN Proper Shipping Name** Not applicable. 14.3 Transport hazard class(es) Not applicable. 14.4 **Packing Group** Not applicable. 14.5 **Environmental hazards** Not applicable. 14.6 Special precautions for user Not applicable. 14.7 Transport in bulk according to Annex II of Not applicable.

MARPOL73/78 and the IBC Code

**14.8 Additional Information** Shipped in containers greater than 119 gallons capacity.

UN number NA 1993.

UN Proper Shipping Name COMBUSTIBLE LIQUIDS, N.O.S. (DMSO (Dimethyl

sulfoxide)).

All chemicals are not listed.

Packing Group III

#### 15. SECTION 15: REGULATORY INFORMATION

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

#### 15.1.1 USA

Toxic and hazardous substances (29 CFR 1910; All chemicals are not listed.

Subpart Z)

National emission standards for hazardous air

pollutants (40 CFR 61.01)

Tittle III Consolidated List of Lists

All chemicals are not listed.

OSPAR List of Chemicals for Priority Action

All chemicals are not listed.

OSPAR List of Chemicals for Priority Action

All chemicals are not listed.

State Right to Know Lists

Listed: Dimethyl sulfoxide (CAS No.: 67-68-5).

New Jersey
TSCA (Toxic Substance Control Act)
Listed: Dimethyl sulfoxide (CAS No.: 67-68-5).

Proposition 65 (California)

All chemicals are not listed.

CAA 602 - Ozone Depleting Substances (ODS)

All chemicals are not listed.

#### 15.1.2 Canada

This product has been classified in accordance to CPR Section 12 and the MSDS contains all the information

required by the CPR.

WMHIS Classification B3 Combustible Liquid

Domestic Substances List (DSL)

Export Control List

Priority Substances List (PSL)

Toxic Substances List

Ingredient Disclosure List

List of all Challenge Substances

Not listed.

Substances List

#### 15.1.3 EU



Regulation (EC) No. 1272/2008 (CLP)

Not classified as dangerous for supply/use.

Directive 67/548/EEC & Directive 1999/45/EC

Not classified as dangerous for supply/use.

#### 16. SECTION 16: OTHER INFORMATION

NFPA		HMIS	HMIS		
Health	1	Health	1		
Fire	2	Flammability	2		
Instability	0	Physical hazards	0		

The following sections contain revisions or new statements: 1 - 16.

#### **LEGEND**

US CFR United States Code of Federal Regulations

LTEL Long Term Exposure Limit STEL Short Term Exposure Limit

US D.O.T. United States Department of Transportation

MARPOL International Convention for the Prevention of Pollution From Ships

IBC International Bulk Chemical OSPAR Oslo and Paris Convention

CAA Clean Air Act

NFPA National Fire Protection Association
HMIS Hazardous Material Information System

Flam. Liq. 4 Flammable liquid Category 4

#### **Disclaimers**

THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to amendment by STEMCELL Technologies Inc.