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Safety Data Sheet

CYTOKINE

EFFECTIVE DATE: 2017-01-30

1 Product and Company Identification

1.1 Product Name/Catalog Number:

Product Name	Catalog Number
Human Recombinant Activin A	78001, 78001.1, 78001.2
Human Recombinant BMP-2	78004, 78004.1, 78004.2
Human Recombinant Flt3/Flk-2 Ligand	78009, 78009.1, 78009.2
Human Recombinant G-CSF	78012, 78012.1, 78012.2, 78012.3
Mouse Recombinant GM-CSF	78017, 78017.1, 78017.2,
Mouse Recombinant IL-22	78039, 78039.1
Human Recombinant IL-6	78050, 78050.1, 78050.2
Human Recombinant SCF	78062, 78062.1, 78062.2
Mouse Recombinant SCF	78064, 78064.1, 78064.2
Human Recombinant NT-3	78074, 78074.1, 78074.2

1.2 Product Use: Cell Culture

1.3	Manufacturer/Supplier:	STEMCELL Technologies
		Suite 500-1618 Station Street
		Vancouver, British Columbia V6A 1B6 Canada

1.4 In Case of Emergency Call: 1-800-667-0322

2 Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards No data available

3 Composition / Information on Ingredients

3.1 Mixtures

No components need to be disclosed according to the applicable regulations.

4 First Aid Measures

4.1 Description of first aid measures

4.1.1 If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

4.1.2 In case of skin contact

Wash off with soap and plenty of water.

4.1.3 In case of eye contact

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Flush eyes with water as a precaution.

4.1.4 If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 Fire Fighting Measures

5.1 Extinguishing Media

5.1.1 Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

5.1.2 Unsuitable Extinguishing Media No data available

5.2 Special hazards arising from the substance or mixture

5.2.1 Flammable Properties and Hazards

No data available

- 5.2.2 Flash Pt No data available
- 5.2.3 Autoignition Pt No data available

5.2.4 Explosive Limits LEL: No data available

UEL: No data available

5.2.5 Hazardous Combustion Products No data available

5.3 Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.



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7 Handling and Storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

8 Exposure Controls/Personal Protection

8.1 Exposure limits

Contains no substances with occupational exposure limit values.

8.2 Engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

8.3 Personal protective equipment

8.3.1 Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

8.3.2 Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.3.3 Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.3.4 General hygiene considerations

General industrial hygiene practice.

8.3.5 Environmental exposure controls

No data available

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Lyophilized powder
Odour	No data available
Odour threshold	No data available
рН	No data available

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Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10 Stability and Reactivity

Reactivity	No data available
Chemical stability	No data available
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	No data available
	Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials

11 Toxicological Information

11.1 Acute toxicity

Oral:	No data available
Inhalation:	No data available
Dermal:	No data available
Other:	No data available

11.2 Skin corrosion/irritation No data available

- **11.3 Serious eye damage/eye irritation** No data available
- **11.4 Respiratory and/or skin sensitization** No data available
- **11.5 Germ cell mutagenicity** No data available

11.6 Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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	ACGIH:		s product present at levels greater than or equal to 0.1% is ogen or potential carcinogen by ACGIH.	
	NTP:	No component of this	s product present at levels greater than or equal to 0.1% is	
	OSHA:	No component of this	or anticipated carcinogen by NTP. s product present at levels greater than or equal to 0.1% is	
11.	7 Reproducti	identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity		
	No data ava	•		
11.3	11.8 Specific target organ toxicity - single exposure		ngle exposure	
	No data ava			
11.9 Specific target organ toxicity		get organ toxicity - re	peated exposure	
No data available				
11.10 Aspiration hazard		hazard		
No data available				
11.	11 Potential he	ealth effects	its	
	Inhalation:	n: May be harmful if inhaled. May cause respiratory tract irritation.		
	Ingestion:	May be harmful if swa	allowed.	
	Skin:	May be harmful if abs	sorbed through skin. May cause skin irritation.	
	Eyes:	Eyes:May cause eye irritation. 2 Signs and symptoms of exposure		
11.	-			
	To the best of our knowledge, the chemical, physical, and toxico been thoroughly investigated.		hemical, physical, and toxicological properties have not	
• •		No data available		
2 Ec	ological Info	rmation		
12.	1 Toxicity		No data available	
12.	2 Persistence	e and degradability	No data available	
12.3	3 Bioaccumu	lative potential	No data available	
12.4	4 Mobility in	soil	No data available	
12.	5 Other adve	rse effects	No data available	

13.1 Waste disposal method

Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

14.1 UN number

No data available

Not dangerous goods

14.2 UN proper shipping name

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	ADR/RIDNot dangerous goodsIMDGNot dangerous goodsIATANot dangerous goods	
14.3 Transport hazard class(es)	No data available	
14.4 Packing group	No data available	
14.5 Environmental hazards	No data available	
14.6 Special precautions	No data available	

15 Regulatory Information

15.1 USA

No data available

15.2 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

15.3 Canada

Not WHMIS controlled

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

16 Other Information

- **16.1 Prepared by:** Quality Control, STEMCELL Technologies Inc.
- **16.2 Revision:** 1_1_0
- **16.3 Notice:** 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.

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