

Scientists Helping Scientists™

Safety Data Sheet

RAT RECOMBINANT TNF-ALPHA

EFFECTIVE DATE: 2016-12-16

- 1 Product and Company Identification
 - **1.1 Product Name:** Rat Recombinant TNF-alpha
 - **1.2 Catalog Number:** 78124, 78124.1
 - 1.3 Product Use: Cell Culture
 - 1.4 Manufacturer/Supplier:
 STEMCELL Technologies

 Suite 500-1618 Station Street
 Vancouver, British Columbia V6A 1B6 Canada
 - **1.5 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

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



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EFFECTIVE DATE: 2016-12-16

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
- 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.

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

DX21545-SDS_1_0_0

UEL: No data available



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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 white powder
Odour	No data available
Odour threshold	No data available
рН	No data available
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
-SDS 1 0 0	



	COMBINANT	TNF-ALPHA	EFFECTIVE DATE: 2016-12-1
	Viscosity		No data available
0 Stab	ility and Re	eactivity	
10.1	Reactivity		No data available
10.2	Chemical s	tability	No data available
		of hazardous reactions	No data available
	Conditions		No data available
-			No data available
	Incompatib		
10.6	Hazardous	decomposition products	No data available
1 Toxi	cological Ir	nformation	
11.1	Acute toxic	ity	
	Oral:	No data available	
	Inhalation:	No data available	
	Dermal:	No data available	
	Other:	No data available	
11.2	Skin corros	sion/irritation	
	No data ava	ilable	
11.3	Serious eye damage/eye irritation		
	No data ava		
11.4		and/or skin sensitization	
	No data available		
11.5		Germ cell mutagenicity	
44.0	No data available		
11.6		-	et present at lovels prestor than an arrival to 0.10(
	IARC:		Ict present at levels greater than or equal to 0.1% ble or confirmed human carcinogen by IARC.
	ACGIH:	No component of this produ	potential carcinogen by ACGIH.
	NTP:	No component of this produ	ict present at levels greater than or equal to 0.1%
		identified as a known or antio	cipated carcinogen by NTP.
	OSHA:	identified as a carcinogen or	ct present at levels greater than or equal to 0.1% potential carcinogen by OSHA.
11.7	Reproducti	-	
		o data available	
11.8		get organ toxicity - single ex	posure
44.0	No data ava		
	Specific target organ toxicity - repeated exposure		exposure
11.9			
	No data ava Aspiration		



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11.11 Potential health effects

Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
-	

Eyes: May cause eye irritation.

11.12 Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.13 RTECS # No data available

12 Ecological Information

12.1	Toxicity	No data available
12.2	Persistence and degradability	No data available
12.3	Bioaccumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Other adverse effects	No data available

13 Disposal Considerations

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	
14.2 UN proper shipping name	DOTNot dangerous goodsADR/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



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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_0_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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