

# HUMAN RECOMBINANT TGF-BETA 3, ACF

EFFECTIVE DATE: 2017-04-06

#### **1** Product and Company Identification

1.1	Product Name:	Human Recombinant TGF-beta 3, ACF
1.2	Product Identifier:	Ethyl alcohol 20%
1.3	Catalog Number:	78156, 78156.1, 78156.2

1.4 Product Use: Cell Culture

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

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

# 2 Hazards Identification

# 2.1 Classification of the substance or mixture

Carcinogenicity, Category 1A

2.2 Label elements

Pictogram



Signal word	Danger
Hazard statement(s)	
H350	May cause cancer.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P308+313	IF exposed or concerned: Get medical advice/attention.
Other hazards	Toxic to aquatic life with long lasting effects Harmful to aquatic life

## 3 Composition / Information on Ingredients

#### 3.1 Substances

2.3

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
Ethyl alcohol	64-17-5	20%	200-578-6
Acetic acid	64-19-7	0.06	200-580-7

# 4 First Aid Measures



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#### 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. Consult a physician.

## 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

Carbon oxides

# 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 breathing vapors, mist or gas. Ensure adequate ventilation.



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For personal protection see section 8.

#### 6.2 Environmental precautions

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7 Handling and Storage

#### 7.1 Precautions for safe handling

Avoid contact with skin, eyes or clothing. 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

Component	CAS #	Value	Control parameters	Basis
Ethyl alcohol	64-17-5	TWA	1000 ppm	Alberta
		TWA	1880 mg/m <sup>3</sup>	Alberta
		STEL	1000 ppm	British Columbia
		STEL	1000 ppm	Ontario
		TWA	1000 ppm	Quebec
		TWA	1880 mg/m <sup>3</sup>	Quebec
		STEL	1000 ppm	USA. ACGIH TLV
		TWA	1000 ppm	USA. OSHA PEL
		TWA	1900 mg/m <sup>3</sup>	USA. OSHA PEL
		IDLH	3300 ppm	USA. NIOSH IDLH
		TWA	1000 ppm	USA. NIOSH IDLH
		TWA	1900 mg/m <sup>3</sup>	USA. NIOSH IDLH
		TWA	1000 ppm	UK
		TWA	1920 mg/m <sup>3</sup>	UK
		STEL	3000 ppm	UK
		STEL	5760 mg/m <sup>3</sup>	UK

#### 8.2 Engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

#### 8.3 Personal protective equipment



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#### 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	Clear liquid
Odour	No data available
Odour threshold	No data available
	No data available
pH	
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**

10.1 Reactivity

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No data available



#### HUMAN RECOMBINANT TGF-BETA 3, ACF **EFFECTIVE DATE: 2017-04-06** 10.2 Chemical stability Stable under normal conditions. 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid No data available 10.5 Incompatible materials No data available 10.6 Hazardous decomposition products No data available **11 Toxicological Information** 11.1 Acute toxicity Oral: Ethyl alcohol: LD50 - Rat - 7060 mg/kg Inhalation: Ethyl alcohol: LC50 - Rat - 124.7 mg/L - 4 h 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: Group 1 Carcinogenic to humans (ethyl alcohol) ACGIH: Group A3 Confirmed animal carcinogen with unknown relevance to humans (ethyl alcohol) Known to be human carcinogens (ethyl alcohol) NTP: OSHA: Identified as a carcinogen or potential carcinogen (ethyl alcohol) 11.7 Reproductive toxicity No data available 11.8 Specific target organ toxicity - single exposure No data available 11.9 Specific target organ toxicity - repeated exposure No data available 11.10 Aspiration hazard No data available **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. Eves: 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.



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Target organ effects: Liver, respiratory system, eyes, skin, central nervous system, blood, reproductive system.

11.13 RTECS # No data available

# **12 Ecological Information**

#### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Component	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl alcohol 64-17-5	No data available	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flowthrough		9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50

12.2 Tersistence and degradability	
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

# SARA 302 Components:



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No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312:

Chronic Health Hazard (Ethyl alcohol)

Component	CAS #	Revision Date
Ethyl alcohol	64-17-5	2007-03-01
Acetic acid	64-19-7	1993-04-24
Pennsylvania Right To Know Components		
Component	CAS #	Revision Date
Ethyl alcohol	64-17-5	2007-03-01
Acetic acid	64-19-7	1993-04-24
New Jersey Right To Know Components		
Component	CAS #	Revision Date
Ethyl alcohol	64-17-5	2007-03-01
Acetic acid	64-19-7	1993-04-24

#### California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Component CAS # Revision Date

64-17-5

#### 15.2 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008.

# 15.3 Canada

#### Not WHMIS controlled

Ethyl alcohol

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.

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

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2007-03-01