



60137 - Anti-Human MUC1 (CD227) Antibody, Clone 214D4

Revision Date 04-Dec-2018 Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier					
Product Name	Anti-Human MUC1 (CD227) Antibody, Clone 214D4				
Other means of identification					
Catalog Number	60137				
Document Number	DX23121				
Synonyms	None				
Recommended use of the chemical	Recommended use of the chemical and restrictions on use				
Recommended Use	No information available				
STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485. PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.					
Details of the supplier of the safety data sheet					
<u>Manufacturer/Supplier</u> STEMCELL Technologies Canada Inc Suite 500 - 1618 Station Street	2.				

Vancouver, British Columbia V6A 1B6 Canada

Emergency telephone number

Emergency Telephone

1-800-667-0322

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

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





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The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance No information available

Physical state Liquid

Odor No information available

Other Information Not applicable

Unknown acute toxicity 31.2542 % of the mixture consists of ingredient(s) of unknown toxicity

1.2542 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1.2542 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

31.2542 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

31.2542 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

1.2542 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

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

Chemical name	CAS No.	Weight-%
Glycerol	56-81-5	30

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

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.





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

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None. None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
Environmental precautions	
Environmental precautions	See Section 12 for additional Ecological Information.
Methods and material for containme	ent and cleaning up_
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.





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Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol 56-81-5	No data available	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	-

Appropriate engineering controls

Engineering controls Showers Eyewash stations Ventilation systems.

Individual protection measures, such as 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





Method

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exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	No information available	
Color	No information available	
Odor	No information available	
Odor threshold	No information available	
Property_	<u>Values</u>	Remarks • M
рН	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	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility in other solvents	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
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	
Other Information		
Softening point	No information available	
Molecular weight	No information available	
Molecular formula	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	

10. STABILITY AND REACTIVITY





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Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

	Inhalation Specific test data for the substance or mixture is not available.						
	Inhalation Specific test data for the substance or mixture is not available.						
	Eye contactSpecific test data for the substance or mixture is not available.						
	Skin contact	Specific test data for the s	ubstance or mixture is not availal	ole.			
	Ingestion	Specific test data for the s	ubstance or mixture is not availal	ole.			
<u>Sy</u>	mptoms related to the physi	cal, chemical and toxicologica	I characteristics				
Sy	mptoms	No information available.					
	Numerical measures of toxicity_						
ть	a fallowing values are calcu	lated based on chapter 3.1 of t	ha CUS degument				
	ATEmix (oral)	42,000.00 mg/kg					
	ATEmix (dermal)	33,367.00 mg/kg					
Unknown acute toxicity 31.2542 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 1.2542 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 1.2542 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 31.2542 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 31.2542 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 31.2542 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 31.2542 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 1.2542 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (uast/mist) Component Information							
	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50			





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Glycerol 56-81-5	= 12600 mg/kg (Rat)	= 12600 mg/kg (Rat) > 10 g/kg (Rabbit)		
Delayed and immediate effects a	as well as chronic effects from	short and long-term exposu	re_	
Skin corrosion/irritation	No information available.			
Serious eye damage/eye irritatio	n No information available.			
Respiratory or skin sensitizatior	No information available.			
Germ cell mutagenicity	No information available.			
Carcinogenicity	No information available.			
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.	No information available.		
STOT - repeated exposure	No information available.	No information available.		
arget organ effects	kidney, Respiratory system,	, Eyes, Skin.		
spiration hazard	No information available.			

12. ECOLOGICAL INFORMATION

Ecotoxicity				
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
	.		microorganisms	
Glycerol	-	LC50: 51 - 57mL/L (96h,	-	EC50: >500mg/L (24h,
56-81-5		Oncorhynchus mykiss)		Daphnia magna)

Persistence and degradability No information available.

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Glycerol	-1.76
56-81-5	

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS





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Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	P105

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories Complies TSCA Complies DSL/NDSL Complies EINECS/ELINCS Does not comply ENCS IECSC Complies KECL Does not comply PICCS Does not comply AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory





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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

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			
Glycerol	Х	Х	Х
56-81-5			





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Sodium Azide	Х	Х	Х
26628-22-8			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By,

Quality Control. STEMCELL Technologies Canada Inc.

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No information available.

Revision Note Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

End of Safety Data Sheet