



20110 20120 - EasySep™ Red Blood Cell Lysis Buffer

Revision Date 12-Aug-2021 Revision Number 4

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

Product identifier			
Product Name	EasySep™ Red Blood Cell Lysis Buffer		
Other means of identification			
Catalog Number	20110 20120		
Document Number	DX21064		
Synonyms	None		
Recommended use of the chemical	and restrictions on use		
Recommended Use	Laboratory reagent		
Details of the supplier of the safety data sheet Manufacturer/Supplier STEMCELL Technologies Canada Inc. Suite 500 - 1618 Station Street Vancouver, British Columbia V6A 1B6 Canada Emergency telephone number 1-800-667-0322			
2. HAZARDS IDENTIFICATION			
Classification This chemical is not considered hazar	dous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)		

Hazards not otherwise classified (HNOC)

Not applicable

Label elements





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

Appearance Clear

Physical state Liquid

2.38 % of the mixture consists of ingredient(s) of unknown toxicity

Odor No data available

Other Information Not applicable

Unknown acute toxicity

2.38 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

2.38 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

2.38 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

2.38 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

2.38 % 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	*20 - 50
Ammonium Chloride	12125-02-9	*1 - 10

*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.





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Wash skin with soap and water. Skin contact 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 No information available. chemical **Explosion data** Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None. Special protective equipment for Firefighters should wear self-contained breathing apparatus and full firefighting turnout fire-fighters gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

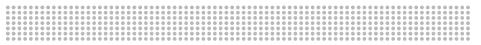
Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.





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Methods for cleaning upPick up and transfer to properly labeled containers.Prevention of secondary hazardsClean 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

Store in accordance with information listed on the Product Information Sheet (PIS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol	No data available	TWA: 15 mg/m ³ mist, total	-
56-81-5		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	
Ammonium Chloride	STEL: 20 mg/m ³ fume	(vacated) TWA: 10 mg/m ³	TWA: 10 mg/m ³ fume
12125-02-9	TWA: 10 mg/m ³ fume	fume	STEL: 20 mg/m ³ fume
		(vacated) STEL: 20 mg/m ³	, i i i i i i i i i i i i i i i i i i i
		fume	

Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

	Eye/face	protection
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No special protective equipment required.





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Skin and body protection	No special protective equipment required.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are 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	phy	ysical and	d chemical	properties

Physical state	
Appearance	
Color	
Odor	
Odor threshold	

Other Information Softening point Molecular weight Molecular formula Liquid Clear No information available No data available No data available

Values No data available No data available

No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available

No information available No information available No information available

Remarks • Method

None known None known None known None known None known None known

None known None known None known None known None known None known None known None known





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VOC Content (%) Liquid Density Bulk density	No information available No information available No information available	
	10. STABILITY AND REACTIVITY	
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.		
Eye contact	Specific test data for the substance or mixture is not available.		
Skin contact	Specific test data for the substance or mixture is not available.		
Ingestion	Specific test data for the substance or mixture is not available.		
Symptoms related to the physical,	chemical and toxicological characteristics		
Symptoms	No information available.		
Numerical measures of toxicity			
The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)11,965.50 mg/kgATEmix (dermal)32,032.00 mg/kg			
Unknown acute toxicity2.38 % of the mixture consists of ingredient(s) of unknown toxicity2.38 % of the mixture consists of ingredient(s) of unknown acute oral toxicity			





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2.38 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

2.38 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

2.38 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

2.38 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Product Information

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol 56-81-5	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³(Rat)1 h
Ammonium Chloride 12125-02-9	= 1650 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Product Information	
Serious eye damage/eye irritation Product Information	No information available.
Respiratory or skin sensitization Product Information	No information available.
Germ cell mutagenicity Product Information	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
	Product Information
STOT - single exposure	No information available. Product Information
	Product Information
STOT - repeated exposure	No information available.
	Product Information
Target organ effects	kidney, Respiratory system, Eyes, Skin.
Aspiration hazard RTECS #	No information available. Glycerol: MA8050000

12. ECOLOGICAL INFORMATION

Ecotoxicity





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Product Information				
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Glycerol	EC0 (Scenedesmus	LC50: >100 mg/L	EC0 (Pseudomonas	EC50: >500mg/L (24h,
56-81-5	quadricauda (Green	(Exposure time:	putida): > 10,000 mg/L	Daphnia magna)
	algae)): > 10,000 mg/L	96h)Chronic toxicity: >1	(Exposure time: 16 h)	
		mg/L		
Ammonium Chloride	-	LC50: =725mg/L (24h,	-	LC50: =202mg/L (24h,
12125-02-9		Lepomis macrochirus)		Daphnia magna)
		LC50: =209mg/L (96h,		
		Cyprinus carpio)		

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Glycerol	log Pow: -2.66
56-81-5	

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated





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ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

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

Legend:

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

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	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)





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This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium Chloride 12125-02-9	5000 lb	-	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ammonium Chloride	5000 lb	-
12125-02-9		

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	X	Х
56-81-5			
Ammonium Chloride	Х	X	Х
12125-02-9			

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.

 Revision Date
 12-Aug-2021

 Revision Note
 No information available.

 Disclaimer
 No





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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