
Safety Data Sheet (according to 1907/2006/EC, Article 31)
Revision: 2.4 | Revision date: 30/March/2021

Catalog number	Product name
hC001-XXXX	Whole blood processing kit (human)
hC002-XXXX	Whole blood processing kit (human)/Gen2
mC001-XXXX	Whole blood processing kit (murine)
mC002-XXXX	Whole blood processing kit (murine)/Gen2
	Components
hC001-XXXX -L01	LYSIS buffer (4x concentrated) (human)
hC002-XXXX -L01	
mC001-XXXX -L01	LYSIS buffer (4x concentrated) (murine)
mC002-XXXX -L01	
XXXX	<i>Corresponds to variable kit size</i>

Safety Data Sheet (according to 1907/2006/EC, Article 31)

Revision: 2.4 | Revision date: 30/March/2021

Section 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifiers			
Product name:	LYSIS buffer (4x concentrated)		
Product number:	hC001-XXXX -L01/mC001-XXXX -L01		
Brand:	Cytodelics		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Identified uses:	Sample stabilization and washing after fixation with formaldehyde-based fixative solutions; research use only		
1.3. Details of the supplier of the safety data sheet			
Company:	Cytodelics AB		
	Forskargatan 20J		
	151 36 Södertälje		
	Sweden		
Telephone:	+46(0) 708517856		
Fax:	Not available		
Email:	info@cytodelics.com		
1.4. Emergency telephone number			
Emergency phone:	In case of a chemical emergency, spill, fire, or exposure		
	Country	Phone numbers	
	Australia	1800 127 406	+64 4 917 9888
	New Zealand	0800 764 766	0800 243 622
	Finland	09 471 977	09 4711
	Sweden	112	
	Norway	22 59 13 00	113
	Denmark	82 12 12 12	
	Czech Republic	224 919 293	224 915 402
Section 2: Hazards identification			
2.1. Classification of the substance or mixture			
Classification according to Regulation (EC) No 1272/2008 (CLP): None of the mixture's components meets the criteria for classification in accordance with Regulation No 1272/2008/EC.			
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	The product is not classified according to the Globally Harmonized System (GHS).		
Classification - EC 1272/2008	The product is not classified according to the CLP regulation.		
2.2. Label elements			
Hazard pictograms:	<i>Not applicable</i>		
Signal word:	<i>Not applicable</i>		
Hazard statements:	<i>Not applicable</i>		
Precautionary statements:	<i>Not applicable</i>		
2.3. Other hazards	<i>Not applicable</i>		

Safety Data Sheet (according to 1907/2006/EC, Article 31)

Revision: 2.4 | Revision date: 30/March/2021

Section 3: Composition/information on ingredients				
3.1. Substances (EC 1272/2008)		Not applicable		
3.2. Mixtures				
Identification name	Index number in CLP Annex VI	CAS number	EC number	Weight % content (or range)
Trometamol	No data available	77-86-1	201-064-4	< 10%
Bovine Serum Albumin	No data available	9048-46-8	232-936-2	< 1%
2-[2-[bis(carboxymethyl) amino]ethyl-(carboxymethyl) amino]acetic acid (EDTA)	No data available	6381-92-6	613-386-6	< 1%
Section 4: First aid measures				
4.1. Description of first aid measures				
<i>Note: classification based on significantly more concentrated formulations.</i>				
Medical complications listed below may occur with unforeseeable extreme exposure like e.g. ingestion of very large amounts of the mixture or extremely long skin exposure to large volumes of the mixture.				
Inhalation:	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Keep patient warm. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.			
Eye contact:	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Remove contact lenses, if present and easy to do. May cause irritation, redness, pain, and tearing. Seek medical attention.			
Skin contact:	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.			
Ingestion:	If swallowed, drink plenty of water, do NOT induce vomiting. Get immediate medical attention. Induce vomiting only at the instructions of a physician. Do not give anything by mouth to unconscious or convulsive person.			
General information:	If you feel unwell, seek medical advice (show the label where possible).			
4.2. Most important symptoms and effects, both acute and delayed				
None further relevant information available.				
4.3. Indication of any immediate medical attention and special treatment needed				
All treatment should be based on observed sign and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.				
Section 5: Fire-fighting measures				
5.1. Extinguishing media				
Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
Unsuitable extinguishing media:	No information available			

Safety Data Sheet (according to 1907/2006/EC, Article 31)

Revision: 2.4 | Revision date: 30/March/2021

5.2. Special hazards arising from the substance or mixture	No information available
5.3. Advice for fire-fighters	Wear self-contained respiratory protective device. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.
Section 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	Wear suitable protective clothing. Avoid breathing vapors, mist or gas. Avoid formation of dust. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Avoid breathing dust. For personal protection see section 8.
6.2. Environmental precautions	Prevent further spillage if safe. Do not allow product to enter drains. Discharge into the environment must be avoided.
6.3. Methods and material for containment and cleaning up	Do not flush to sewer. Soak up with inert absorbent material. Transfer to suitable, labeled containers for disposal. Dispose of in accordance with local regulations.
6.4. Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal.
Section 7: Handling and storage	
7.1. Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest. As with all chemicals, wash hands thoroughly after handling. Protect from freezing and physical damage. Store away from strong oxidizing agents.
7.2. Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, temperature controlled (20-25 °C) and well-ventilated place. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage.
7.3. Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
Section 8: Exposure controls/personal protection	
8.1. Control parameters	
Exposure limit values	Not applicable. The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
8.2. Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working

Safety Data Sheet (according to 1907/2006/EC, Article 31)

Revision: 2.4 | Revision date: 30/March/2021

	area. Remove all soiled and contaminated clothing immediately. Safety showers, eye wash stations and hand-washing equipment should be available.
Eye/ face protection	Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin/ hand protection	Wear suitable protective clothing and gloves to avoid skin contact.
Respiratory protection	Under conditions of frequent use or heavy exposure, respiratory protection may be needed
Environmental exposures controls	For details see Section 6.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance	Form: liquid;
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	Approx. 1.0 g/cm ³ at 20 °C
n) Water solubility	Freely soluble
o) Partition coefficient: n- octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other information

Hazardous chemical reactions:	No data available
The substance polymerize in contact with:	No data available
The substance can react dangerously with:	No data available

Safety Data Sheet (according to 1907/2006/EC, Article 31)

Revision: 2.4 | Revision date: 30/March/2021

Section 10: Stability and reactivity				
10.1. Reactivity		No data available		
10.2. Chemical stability		Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.		
10.3. Possibility of hazardous reactions		No data available		
10.4. Conditions to avoid		Incompatible products		
10.5. Incompatible materials		Strong oxidizing agents		
10.6. Hazardous decomposition products		None under normal conditions		
Section 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity		EDTA: lowest reported toxic effect in animals was 750 mg/kg/day (less than 10g contained in this product); it is poorly absorbed from GI tract ¹ .		
Skin corrosion/irritation		No data available		
Serious eye damage/irritation		Potentially it may cause mild eye irritation. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of persistent problems contact a physician.		
Respiratory or skin sensitization		No data available		
Germ cell mutagenicity		No data available		
Carcinogenicity		No data available		
Reproductive toxicity		No data available		
STOT-single exposure		No data available		
STOT-repeated exposure		No data available		
Aspiration hazard		No data available		
Section 12: Ecological information				
12.1. Toxicity				
Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
EDTA	EC50: = 1.01 mg/L, 72h (Desmodesmus subspicatus)	LC50: 44.2 - 76.5 mg/L, 96h static (Pimephales promelas) LC50: 34 - 62 mg/L, 96h static (Lepomis macrochirus)	Not listed	EC50: = 113 mg/L, 48h Static (Daphnia magna)
12.2. Persistence and degradability		EDTA: potentially behaves as persistent pollutant enhancing mobility and bioavailability of heavy metals.		
12.3. Bioaccumulative potential		EDTA: not the molecule itself but it increases bioaccumulative potential of heavy metals.		
12.4. Mobility in soil		EDTA: potentially increases mobility of heavy metals		
12.5. Results of PBT and vPvB assessment		This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or		

¹ Int J Toxicol. 2002;21 Suppl 2:95-142

Safety Data Sheet (according to 1907/2006/EC, Article 31)

Revision: 2.4 | Revision date: 30/March/2021

	very persistent and very bioaccumulative (vPvB) by themselves but EDTA potentially increases heavy metals bioavailability and therefore their PBT and vPvB potential
12.6. Other adverse effects	No data available
Section 13: Disposal considerations	
13.1. Waste treatment methods	
Product / Packaging disposal: Waste codes / waste designations according to LoW:	Contaminated packaging dispose as unused product.
13.1.2 Waste treatment-relevant information:	Dispose of in compliance with all local and national regulations. Contact a licensed waste disposal company. Dispose of this material and its container to hazardous or special waste collection point.
13.1.3 Sewage disposal-relevant information:	Do not allow to reach sewage water or drainage ditch.
13.1.4 Other disposal recommendations:	No data available
Section 14: Transport information	
14.1. UN number	Not classified as dangerous in the meaning of transport regulations.
14.2. UN proper shipping name	None
14.3. Transport hazard class(es)	None
14.4. Packing group	None
14.5. Environmental hazards	Also refer to Section 6.
14.6. Special precautions for user	Not applicable
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
Section 15: Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	All components of this product are on the ECHA public inventory. All components listed in the Australian Inventory of Chemical Substances (AICS). Labelling according to Regulation (EC) No 1272/2008. This safety datasheet complies with the requirements of Commission Regulation (EU) 2015/830.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
Section 16: Other information	

Safety Data Sheet (according to 1907/2006/EC, Article 31)

Revision: 2.4 | Revision date: 30/March/2021

Only trained personnel should use this material. To the best of our knowledge, the information contained herein is accurate. However, neither CytoDelics, nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Additional information

ECHA information on registered substances

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

OECD eChemPortal

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

IFA GESTIS database on hazardous substances

<http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

IFA-International limit values

<http://limitvalue.ifa.dguv.de/>

EDTA environmental threat potential

http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0100-40422003000600020