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**Safety Data Sheet** (according to 1907/2006/EC, Article 31)  
Revision: 2.4 | Revision date: 02/April/2021

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<b>Catalog number</b>	<b>Product name</b>
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
	<b>Components</b>
hC001-XXXX -D01	Fix-Diluent (human)
hC002-XXXX -D01	
mC001-XXXX -D01	Fix-Diluent (murine)
mC002-XXXX -D01	
XXXX	<i>Corresponds to variable kit size</i>

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Section 1: Identification of the substance/mixture and of the company/undertaking			
<b>1.1. Product identifiers</b>			
Product name:	Fix-Diluent		
Product number:	hC001-XXXX -D01/mC001-XXXX -D01		
Brand:	Cytodelics		
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>			
Identified uses:	Dilution of fixation buffer; research use only		
<b>1.3. Details of the supplier of the safety data sheet</b>			
Company:	Cytodelics AB		
	Forskargatan 20J		
	151 36 Södertälje		
	Sweden		
Telephone:	+46(0) 708517856		
Fax:	Not available		
Email:	info@cytodelics.com		
<b>1.4. Emergency telephone number</b>			
Emergency phone:	In case of a chemical emergency, spill, fire, or exposure		
	<b>Country</b>	<b>Phone numbers</b>	
	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
	France	0145425959	
Section 2: Hazards identification			
<b>2.1. Classification of the substance or mixture</b>			
Classification according to Regulation (EC) No 1272/2008 (CLP): <b>None of the mixture's components meets the criteria for classification in accordance with Regulation No 1272/2008/EC.</b> Mixture contains <b>Sodium Azide at &lt;0.1%</b> ; considered as not hazardous at this concentration and therefore <b>does not legally require safety datasheet.</b>			
<b>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)</b>	The product is not classified according to the Globally Harmonized System (GHS).		
<b>Classification – EC 1272/2008</b>	The product is not classified according to the CLP regulation.		
<b>2.2. Label elements</b>			
<b>Hazard pictograms:</b>	<i>Not applicable</i>		
<b>Signal word:</b>	<i>Not applicable</i>		
<b>Hazard statements:</b>	<i>Not applicable</i>		
<b>Precautionary statements:</b>	<i>Not applicable</i>		
<b>2.3. Other hazards</b>	<i>Not applicable</i>		

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<b>Section 3: Composition/information on ingredients</b>				
<b>3.1. Substances</b> (EC 1272/2008)		Not applicable		
<b>3.2. Mixtures</b>				
Identification name	Index number in CLP Annex VI	CAS number	EC number	Weight % content (or range)
Sodium azide	011-004-00-7	26628-22-8	247-852-1	<0.1%
Used as a biocidal preservative; harmful if swallowed; it has been evident to kill at low concentrations if enough is ingested (more than supplied in kit). May cause eye, skin or tissue irritation.				
<b>Section 4: First aid measures</b>				
<b>4.1. Description of first aid measures</b>				
<b>Inhalation:</b>	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.			
<b>Eye contact:</b>	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.			
<b>Skin contact:</b>	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.			
<b>Ingestion:</b>	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.			
<b>General information:</b>	If you feel unwell, seek medical advice (show the label where possible).			
<b>4.2. Most important symptoms and effects, both acute and delayed</b>				
The most commonly reported health effect from azide exposure is hypotension, almost independent of route of exposure. Most industrial exposures are by inhalation of pure substance. Most laboratory exposures or suicide attempts are by ingestion <sup>1</sup> . <i>Note: Check the section 11 for toxicological information.</i>				
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>				
Onset of hypotension within minutes or in less than an hour is indicative of a pharmacological response and a benign course. Hypotension with late onset (>1 hour) constitutes an ominous sign for death. All individuals with hypotension for more than an hour died. Additional health effects included mild complaints of nausea, vomiting, diarrhea, headache, dizziness, temporary loss of vision, palpitation, dyspnea, or temporary loss of consciousness or mental status decrease. More severe symptoms and signs included marked decreased mental status, seizure, coma, arrhythmia, tachypnea, pulmonary edema, metabolic acidosis, and cardiorespiratory arrest <sup>1</sup> .				

<sup>1</sup> (Chang, S. et al., Int.J.Toxicol.; 22:175-186; 2003).

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NOTE TO PHYSICIAN: For inhalation, consider oxygen. For ingestion, consider gastric lavage, activated charcoal slurry and catharsis.

*Note: Check the section 11 for toxicological information.*

### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Unsuitable extinguishing media:	No information available
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<b>5.2. Special hazards arising from the substance or mixture</b>	No information available
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<b>5.3. Advice for fire-fighters</b>	Wear self-contained respiratory protective device. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.
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### Section 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	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.
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<b>6.2. Environmental precautions</b>	Prevent further spillage if safe. Do not allow product to enter drains. Discharge into the environment must be avoided.
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<b>6.3. Methods and material for containment and cleaning up</b>	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.
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<b>6.4. Reference to other sections</b>	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal.
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### Section 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	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. Store locked up. As with all chemicals, wash hands thoroughly after handling. Protect from freezing and physical damage. Do not mix pure substance with acids. Contact with acid generates toxic Hydrazoic Acid fumes.
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<b>7.2. Conditions for safe storage, including any incompatibilities</b>	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. Do not store near acids.
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<b>7.3. Specific end use(s)</b>	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.			
<b>Section 8: Exposure controls/personal protection</b>				
<b>8.1. Control parameters</b>				
<b>Exposure limit values</b>				
Sodium azide	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Australia			0,11 (1)(2)	0,3 (1)(2)
Austria		0,1		0,3
Belgium		0,1		0,3
Canada - Ontario			0,29 (1)	
Canada - Québec			0,11 (1)	0,3 (1)
Denmark		0,1		0,2
European Union		0,1		0,3
Finland		0,1		0,3 (1)
France		0,1		0,3
Germany (AGS)		0,2		0,4 (1)
Germany (DFG)		0,2 inhalable aerosol		0,4 inhalable aerosol
Hungary		0,1		0,3
Ireland		0,1		0,3 (1)
Italy		0,1		0,3
Latvia		0,1		0,3 (1)
New Zealand			0,11 (1)	0,29 (1)
People's Republic of China				0,3 (1)
Poland		0,1		0,3
South Korea				0,29 (1)
Spain		0,1		0,3
Switzerland		0,2 inhalable aerosol		0,4 inhalable aerosol
The Netherlands		0,1		0,3
Turkey		0,1		0,3 (1)
USA - NIOSH			0,1 (1)	0,3 (2)
United Kingdom		0,1		0,3
	<b>Remarks</b>			
Australia	(1) Ceiling limit value (2) For the two substances marked with this footnote (Benomyl, and Sodium azide), the exposure standards are established as gravimetric (mg/m <sup>3</sup> ) values and converted into volumetric values.			
Canada - Ontario	(1) Ceiling limit value			
Canada - Québec	(1) Ceiling limit value			
European Union	Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] ~ (for references see <a href="#">bibliography</a> )			

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Finland	(1) 15 minutes average value
France	Bold type: Restrictive statutory limit values
Germany (AGS)	(1) 15 minutes average value
Germany (DFG)	STV 15 minutes average value
Ireland	(1) 15 minutes reference period
Italy	skin
Latvia	(1) 15 minutes average value
New Zealand	(1) Ceiling limit value
People's Republic of China	(1) Ceiling Limit value
South Korea	(1) Ceiling limit value
Spain	skin
Turkey	(1) 15 minutes average value
USA - NIOSH	(1) Ceiling limit value (as HN3) (2) Ceiling limit value (as NaN3)
<b>8.2. Exposure controls</b>	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working area. Safety showers, eye wash stations and hand-washing equipment should be available.
Eye/ face protection	Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin/ hand protection	Wear suitable protective clothing and gloves. Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Respiratory protection	Under conditions of frequent use or heavy exposure, respiratory protection may be needed
Environmental exposures controls	For details see Section 6.
<b>Section 9: Physical and chemical properties</b>	

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<b>9.1. Information on basic physical and chemical properties</b>	
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	Approx. 0 °C
f) Initial boiling point and boiling range	Approx. 100 °C
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. 1.03 g/cm <sup>3</sup> 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
<b>9.2 Other information</b>	
Hazardous chemical reactions:	No data available
The substance polymerize in contact with:	No data available
The substance can react dangerously with:	No data available
<b>Section 10: Stability and reactivity</b>	
<b>10.1. Reactivity</b>	No data available
<b>10.2. Chemical stability</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>10.3. Possibility of hazardous reactions</b>	No data available
<b>10.4. Conditions to avoid</b>	No data available
<b>10.5. Incompatible materials</b>	Potentially but unlikely: Halogenated hydrocarbon, Metals, Acids, Acid chlorides, Hydrazine, Dimethyl sulfate, Inorganic acid chlorides
<b>10.6. Hazardous decomposition products</b>	No data available
<b>Section 11: Toxicological information</b>	

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<b>11.1. Information on toxicological effects</b>	
Acute toxicity	<p><b>Human; oral exposure:</b>            Fatal doses occur with exposures &gt; 700mg (10mg/kg body weight)            Nonlethal doses occur with exposures 0.3-150mg (0.004-2 mg/kg body weight)  <u>LD50 oral rat</u>            Value: 27 mg/kg            Farm Chemicals Handbook. Vol. -, Pg. C32, 1991.  <u>LD50 dermal</u>            Species: Rabbit            Value: 20 mg/kg            Farm Chemicals Handbook. Vol. -, Pg. C32, 1991.</p>
Skin corrosion/irritation	Potentially can causes skin irritation. If skin irritation occurs: Get medical attention.
Serious eye damage/irritation	Potentially can causes serious eye damage. 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. Immediately call a POISON CENTER or 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
<b>Section 12: Ecological information</b>	
<b>12.1. Toxicity</b>	<p><u>LC50 Fish (96 hours)</u>            Minimum: 0,68 mg/l            Maximum: 5,46 mg/l            Median: 2,8 mg/l            Study number: 6            Reference for median:            Klaverkamp, J.F., A. Kenney, S.E. Harrison, and R. Danell 1975. An Evaluation of Phenol and Sodium Azide as Reference Toxicants in Rainbow Trout. In: Proc.2nd Annual Aquatic Toxicity Workshop, 1975, Ontario Ministry of the Environ., Freshwater Inst., Winnipeg, Manitoba, Canada :73-92</p> <p><u>LC50 Crustaceans (48 hours)</u>            Minimum: 9 mg/l            Maximum: 9 mg/l            Median: 9 mg/l            Study number: 1            Reference for median:</p>



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	<p>Sanders, H.O. 1969. Toxicity of Pesticides to the Crustacean <i>Gammarus lacustris</i>. Tech.Pap.No.25, U.S.D.I., Bur.Sports Fish.Wildl., Fish Wildl.Serv., Washington, DC :18 p. (Author Communication Used) (Used with Reference 732) (Publ in Part As 6797)</p> <p><b><u>EC50 Crustaceans (48 hours)</u></b>          Minimum: 4,2 mg/l          Maximum: 6,4 mg/l          Median: 5,3 mg/l          Study number: 2          Reference for median:          Mayer, F.L.Jr., and M.R. Ellersieck 1986. Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC :505 p. (USGS Data File)</p> <p><b><u>EC50 Algae (72 or 96 hours)</u></b>          Test duration: 96 hours          Minimum: 0,348 mg/l          Maximum: 0,348 mg/l          Median: 0,348 mg/l          Study number: 1          Reference for median:          Hickey, C.W., C. Blaise, and G. Costan 1991. Microtesting Appraisal of ATP and Cell Recovery Toxicity End Points After Acute Exposure of <i>Selenastrum capricornutum</i> to Selected Chemicals. Environ.Toxicol.Water Qual. 6(4):383-403</p>
<b>12.2. Persistence and degradability</b>	<p>Direct photolysis is reported to have no influence on natural degradation of sodium azide.</p> <p>Sodium azide (NaN<sub>3</sub>) forms hydrazoic acid (HN<sub>3</sub>) when dissolved in water.</p> <p>Sodium azide dissipation from soil is significantly affected by pH, soil moisture, and relative humidity. It dissipates especially from acid, moist soils.</p> <p>Bacterial nitrogenase activity reduces sodium azide to N<sub>2</sub>H<sub>4</sub> and NH<sub>3</sub>; N<sub>3</sub><sup>-</sup> is reduced to N<sub>2</sub> and NH<sub>3</sub>; some of the N<sub>2</sub> formed is further reduced to NH<sub>3</sub>.</p>
<b>12.3. Bioaccumulative potential</b>	No data available
<b>12.4. Mobility in soil</b>	No data available
<b>12.5. Results of PBT and vPvB assessment</b>	This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>12.6. Other adverse effects</b>	Very toxic to aquatic life with long lasting effects.
<b>Section 13: Disposal considerations</b>	
<b>13.1. Waste treatment methods</b>	
Product / Packaging disposal: Waste codes / waste designations according to LoW:	Contaminated packaging dispose as unused product.

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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
<b>Section 14: Transport information</b>	
<b>14.1. UN number</b>	Not classified as dangerous in the meaning of transport regulations.
<b>14.2. UN proper shipping name</b>	None
<b>14.3. Transport hazard class(es)</b>	None
<b>14.4. Packing group</b>	None
<b>14.5. Environmental hazards</b>	Also refer to Section 6.
<b>14.6. Special precautions for user</b>	Not applicable
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable
<b>Section 15: Regulatory information</b>	
<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	All components of this product are on the ECHA public inventory. 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.
<b>15.2. Chemical safety assessment</b>	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
<b>Section 16: Other information</b>	
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.	
<b>Additional information</b>	
ECHA information on registered substances <a href="http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances">http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances</a> OECD eChemPortal <a href="http://www.echemportal.org/echemportal/index?pageID=0&amp;request_locale=en">http://www.echemportal.org/echemportal/index?pageID=0&amp;request_locale=en</a> IFA GESTIS database on hazardous substances <a href="http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp">http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp</a> IFA-International limit values	

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