

# Material Safety Data Sheet

## 1. Product and Company Identification

<b>1.1 Product Name</b>	QGel™ MT 3D Matrix
<b>1.2 Catalogue Numbers</b>	1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212
<b>1.3 Synonyms</b>	Artificial Extracellular Matrix, hydrogel, polyethylene glycol (PEG), synthetic peptide
<b>1.4 Product Use</b>	Culturing cells in three dimensions for all cell types. THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS. NOT TO BE USED FOR DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.
<b>1.5 Manufacturer</b>	QGel SA PSE-C EPFL 1015 Lausanne – Switzerland
<b>1.6 In Case of Emergency</b>	Web: <a href="http://www.qgelbio.com/support">www.qgelbio.com/support</a> Email: <a href="mailto:info@qgelbio.com">info@qgelbio.com</a> Call: +41 22 534 96 80
<b>1.7 Date Prepared</b>	01.03.2010
<b>1.8 Prepared by</b>	Simone Rizzi, Product & Business Development Colin Sanctuary, CEO

## 2. Chemical Components / Composition / Information on Ingredients

<b>2.1 Components</b>	4-arm Poly(ethylene) Glycol Chemically synthesised peptide in Trifluoroacetate salt	CAS no. : none CAS no. : none
-----------------------	----------------------------------------------------------------------------------------	----------------------------------

## 3. Hazards Identification

<b>3.1 Emergency Overview</b>	White or off-white solid or powder, slight odor. Caution! Avoid contact and inhalation. During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion	
<b>3.2 Potential Health Effects</b>	May cause pain and slight transient (temporary) irritation	
<b>Eye</b>	Brief contact with the solid will not result in significant irritation	
<b>Skin</b>	Unknown	
<b>Ingestion</b>	None	
<b>3.3 Chronic Effects</b>	Not determined	
<b>Carcinogenicity</b>	NPT, IARC – not listed	
<b>3.4 OSHA</b>	Not regulated	

## 4. First Aid Measures

<b>4.1 Potential Health Effects</b>	Immediately flush with plenty of water. Wash skin with plenty of water. If victim is conscious and alert, induce vomiting if large amounts are ingested. Do not give anything by mouth to an unconscious person. Call a physician. If exposed, remove victim from exposure and move to fresh air immediately.
<b>Eye</b>	
<b>Skin</b>	
<b>Inhalation</b>	

## 5. Fire Fighting Measures

<b>5.1 Flammable Properties</b> <b>Flash Point</b> <b>Flammable Limit</b> <b>Fire &amp; Explosions Hazards</b> <b>Fire Fighting Equipment</b>	> 200°C (C.O.C) No data Dense smoke emitted when burned without sufficient oxygen Wear positive pressure self-contained breathing apparatus in any closed space.
-----------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 6. Accidental Release Measures

<b>6.1 Leak and Spill Procedure</b> <b>Large Spills</b> <b>Small Spills</b> <b>Spill Site Treatment</b>	Sweep up with a broom or shovel up, then place in a chemical waste container Sweep up with a broom or collect using a vacuum cleaner Flush residual spill (area) with copious amounts of water
------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 7. Handling and Storage

<b>7.1 Handling</b>  <b>7.2 Storage</b>	Avoid contact with eyes. Avoid prolonged or repeated contact with skin. When handling at elevated temperature, provide adequate ventilation.  Keep container closed. Keep away from heat and open flame. Keep dry Recommended storage temperature -20°C
-----------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 8. Exposure Controls / Personal Protection

<b>8.1 Respiratory Protection</b>  <b>8.2 Skin Protection</b>  <b>8.3 Eye Protection</b>  <b>8.4 Exposure Guidelines or Limits</b>	For most conditions, no respiratory protection  Chemical resistant gloves  Protective goggles or glasses  Not established
------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------

## 9. Physical and Chemical Properties

<b>9.1 Appearance and Odor</b>  <b>9.2 Boiling Point</b>  <b>9.3 Freezing Point</b>  <b>9.4 Solubility in Water</b>  <b>9.5 Specific Gravity</b>  <b>9.6 Viscosity</b>  <b>9.7 pH (5% aq. Soln)</b>	White or off-white solid or powder, slight odor  > 200°C  ca. 56°C  Soluble  No data  When in contact with aqueous solutions, may transform into a gel.  5-9
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 10. Stability and Reactivity

<b>10.1 Stability (condition to avoid)</b>	Avoid open flames and high temperature sources
<b>10.2 Incompatibility</b>	Strong acids and strong oxidizing agents
<b>10.3 Hazardous Decomposition Product</b>	Carbon dioxide and some carbon monoxide
<b>10.4 Hazardous Polymerization</b>	Will not occur

## 11. Toxicological Information

<b>11.1 Acute Oral Effects</b>	Not determined. Acute toxicity via the oral route of administration is expected to be low.
<b>11.2 Acute Dermal Toxicity</b>	No data. Acute toxicity via the dermal route of exposure is expected to be low.

## 12. Ecological Information

	No data are available on the adverse effect of this material on the environment.
--	----------------------------------------------------------------------------------

## 13. Toxicological Information

<b>13.1 Waste Disposal Method</b>	Burn in adequate incinerator Waste must be disposed of in accordance with federal, state and local environmental control regulation.
-----------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------

## 14. Transport Information

<b>14.1 United States Department of Transportation (DOT)</b>	Non-hazardous for transport
--------------------------------------------------------------	-----------------------------

## 15. Regulatory Information

<b>15.1 GENERAL INFORMATION</b>	<b>FOR RESEARCH AND DEVELOPMENT USE ONLY - NOT FOR HUMAN USE. NOT FOR DRUG, HOUSEHOLD OR OTHER USES.</b>
<b>15.2 TSCA STATUS</b>	Material(s) listed are exempt from the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory when supplied for research and development purposes or used under the Supervision of a technically qualified individual as defined by 40 CFR720.3.
<b>15.3 OSHA STATUS</b>	The health risks have not been fully determined.
<b>15.4 EUROPEAN/INTERNATIONAL REGULATIONS</b>	Safety phrases S:22 24/25 Do not breathe dust. Avoid contact with skin and eyes.

## 16. Other Information

	The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. QGel SA shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Material Safety Data Sheet (MSDS) is current as of the Date Prepared shown in Section 1.7 of this document and may be subject to amendment by QGel SA. Please refer to the QGel company website ( <a href="http://www.qgelbio.com">www.qgelbio.com</a> ) for the most updated version.
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------