





MATERIAL SAFETY DATA SHEET
In compliance with 91/155/EEC and (EC) 1272/2008 (CLP)

1. INFORMATION OF THE SUBSTANCE/MIXTURE/PREPARATION AND OF THE COMPANY/UNDERTAKING	
PRODUCT NAME:	M6 Keratin 18
PRODUCT NUMBER:	10650
MANUFACTURER:	VIVALAVIDA AB Löfströms allé 5A 172 66 Sundbyberg Sweden Phone: +46 (0)8 122 053 00 Email: info@vlvbio.com Website: www.vlvbio.se
EMERGENCY PHONE:	Please contact the local VIVALAVIDA representation in your country or contact VIVALAVIDA AB directly +46 (0)8 122 053 00

2. HAZARDS IDENTIFICATION
Classification of the substance or mixture According to European Directive 91/155/EEC and regulations (EC) 1272/2008 (CLP) Sodium Azide: No hazardous when concentration < 0.1%. Material of animal origin: Should be considered as potentially infectious.
Hazard description Pictogram: The product does not contain a hazardous ingredient in an amount that requires identification and labelling according to EC directives. This product contains no hazardous constituents, or the concentration of all chemical constituents is below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200 and the European Directive 91/155/EEC, 93/112/EC and (EC) 1272/2008 (CLP).

3. COMPOSITION/INFORMATION ON INGREDIENTS					
Composition	Hazard	Cas number	Concentration	Classification (pure form) according to regulations:	
				European Directive 91/155/EEC	(EC) 1272/2008 (CLP)
Bovine Serum Albumin (BSA)	Non-hazardous	9048-46-8	0.1 %	N/A	N/A
Sodium Azide	Non-hazardous conc. <0.1%	26628-22-8	0.09 %	T+; R28; R32 N; 50/53  	H300 H400 H410 EUH032  
M6 Keratin 18 Monoclonal Antibody	Non hazardous	N/A	10 µg/100 µL	N/A	N/A
According to European Directive 91/155/EEC T+ Very toxic N Dangerous for the environment Hazard statements: R28 Very toxic if swallowed. R32 Contact with acids liberates very toxic gas. R50/53 Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.		According to regulations (EC) 1272/2008 (CLP) Acute toxicity (Category 2) Acute aquatic toxicity (Category 1) Chronic aquatic toxicity (Category 1) Hazard statements: H400 Fatal if swallowed. H300 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. EUH032 Contact with acids liberates very toxic gas.			

4. FIRST AID MEASURES	
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice if needed.
Ingestion:	Flush mouth with plenty of water (do not swallow). Drink large amounts of water. Never give anything to drink to an unconscious person. Seek medical advice if needed.
Eye contact:	IF IN EYES Rinse cautiously with water (20–30°C) for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin contact:	IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Wash with soap and plenty of water after handling.
Others:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. FIRE-FIGHTING MEASURES	
Suitable extinguish media:	Use fire extinguishing media appropriate for site conditions, preferably water spray, carbon dioxide, powder or foam.
Special exposure hazards:	No fire and explosion hazards. No generation of hazardous or toxic gases in dangerous quantities.
Protective equipment:	Self-contained breathing apparatus and protective clothing to avoid all contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions:	Wear suitable protective clothing, gloves and eye/face protection.
Environmental precautions:	Prevent soil and water pollution. Dispose of according to section 13.
Methods for cleaning up:	Absorb spills with absorbent material, dispose of according to section 13.

7. HANDLING AND STORAGE	
Handling:	Ensure good ventilation. Direct physical contact with this product should be avoided. Avoid ingestion.
Storage:	Store in well closed original container at 2–8 °C. Do not Freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Respiratory protection:	Respiratory protection is not required under normal use of this product.
Eye protection:	Wear suitable eye/face protection.
Hand protection:	Wear suitable gloves.
Skin protection:	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
pH:	N/A
Solubility in water:	Soluble

10. STABILITY AND REACTIVITY	
Stability:	Until expiry date stated on label if stored under specified conditions.
Reactivity/Hazardous decomposition products:	None.
Conditions/materials to avoid:	None.

11. TOXICOLOGICAL INFORMATION	
Inhalation:	No additional data is available.
Skin:	No additional data is available.
Oral:	No additional data is available.
Eye:	No additional data is available.
Mutagenic effects:	No data is available on the product itself.
Reproductive toxicity:	No data is available on the product itself.
Carcinogenic effects:	No data is available on the product itself.

12. ECOLOGICAL INFORMATION	
Ecotoxicity :	This product has no known eco-toxicological effects.
Aquatic toxicity effects:	The product itself has no known effects to the aquatic environment, but the product contains very small amounts (0.09 %) of a substance very toxic to the aquatic organisms and may cause long-term effects to the aquatic environment.
Bioaccumulation:	No data available.
Mobility:	No data available.
Degradation:	No data available.

13. DISPOSAL CONSIDERATIONS	
Waste disposal must be in accordance with appropriate Federal, State and local environmental regulations.	

14. TRANSPORT INFORMATION	
No subject for transport regulations (RID/ADR, IMDG, IATA).	

15. REGULATORY INFORMATION AND CONSIDERATIONS	
The product does not contain a hazardous ingredient in an amount that requires identification and labelling according to EC directives.	

16. OTHER INFORMATION	
<p>Recommended use: For research use only.</p> <p>All material from animal origin has been collected from healthy animals. The information provided in this MSDS is to information and belief at the date of the publication the best of our knowledge. VIVALAVIDA AB shall not be held liable for any damage resulting from handling or contact with this product. See Instruction for use for information and intended use of this product. N/A = Not applicable or no information. Revision 2010-09-01: M5 Cytokeratin 18 changed to M5 Keratin 18 in accordance to Schweizer <i>et al.</i>, 2006. New company address. Revision 2011-09-15: Classification according to (EC) 1272/2008 (CLP) included. Revision 2014-03-18: New address information.</p>	