

ABX Milyse LMG 1L	A91A00247GEN	Revision 09/12/2009
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1. Product and company identification	
1.1. Identification of the product	
Product name:	ABX Milyse LMG 1L
Product code:	Ref. : 0702010
1.2. Use of the product	
Erythrocyte lysing reagent for white blood cell counting and differentiation, and hemoglobin determination of blood cell counters.	
1.3. Company identification	
	HORIBA ABX SAS - Rue du Caducée - Parc Euromédecine 34184 MONTPELLIER CEDEX 4 - FRANCE Tel: (33) 4 67 14 15 16 Fax: (33) 4 67 14 15 17 Email: documentation.med@horiba.com
1.4. Emergency phone number	
	Contact the nearest first-aid station

2. Hazards identification	
Dangerous preparation according to 67/548/EEC - 99/45/EEC (Yes/No): Yes	
Most important hazards:	Very toxic to aquatic organism, may cause long term adverse effects in the aquatic environment.
Specific risks	Because of potassium cyanide presence, extremely toxic cyanide acid fumes may be formed when in contact with an acid.

3. Composition/information on ingredients					
3.1. Description of the kit					
	REAGENT : 1 x 1L : Lysing agent				
3.2. Hazardous ingredients (name, concentration)					
CAS N.	EC N°	Name	Concentration	Symbol	Risk
112-00-5	203-927-0 (EINECS)	Dodecyltrimethylammonium chloride	1% < C < 20%	Xn, N	R22, R36/37/38, R50/53

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4. First-aid-measures	
Inhalation:	Provide fresh air.
Skin contact:	Wash skin with water and soap.
Eye contact:	Immediately wash eyes, also under the eyelids, with water for at least 15 minutes. Get medical attention.
Ingestion:	If patient is conscious, rinse out mouth and throat thoroughly with water. Provide artificial respiration with added oxygen in case of intoxication by cyanidric acid. Get medical attention.

5. Fire-fighting measures : Product non flammable	
Extinguishing media:	Use whatever is required for the surrounding area.
Specific risks:	None determined.
Special protective equipment:	None.
Additional recommendations:	None.

6. Accidental release measures	
Personal precautions:	Wear a lab coat, protective gloves and safety goggles.
Environmental precautions:	Never getting into sewage, water, ground.
Methods for cleaning/absorption:	Neutralize with sodium hypochlorite solution. After neutralisation, soak up but do not throw down the sink (incineration).

7. Handling and storage	
7.1. Handling	
Technical measures:	None determined.
Precautions:	The usual laboratory precautions should be observed.
Handling recommendations:	Avoid contact with the eyes, skin and respiratory tract.
7.2. Storage	
Technical measures:	No special requirements.
Storage conditions:	Store in airtight containers, protected from light, at 18-25°C.
Incompatible materials:	Avoid all contact with acids or aqueous acid environments as extremely toxic cyanide acid fumes may be formed.
Packaging materials:	Polyethylene or other plastic.

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8. Exposure controls/personal protection	
8.1. Exposure limit values	
Specific control parameters:	None determined.
8.2. Exposure controls	
8.2.1. Occupational exposure controls	
Technical measures:	Use general room ventilation.
Respiratory protection:	None required.
Hand protection:	Protective gloves.
Eye protection:	Safety goggles.
Skin protection:	Lab coat.
Hygiene measures:	Wash hands before and after use. Eye wash and safety shower in case of prolonged handling.
8.2.2. Environmental exposure controls	
None determined.	

9. Physical and chemical properties			
9.1. General information			
Physical state:	Liquid, aqueous solution		
Colour:	Colourless	Odour:	Smells of cyanide
9.2. Important health, safety and environmental information			
pH:	10 (+/- 0.5)	Relative density:	Not determined
Boiling point:	Not determined	Solubility:	Miscible with water
Flash point:	Not determined	Partition coefficient:	Not determined
Flammability (solid, gaz):	Not determined	Viscosity:	Not determined
Explosive properties:	Not determined	Vapour density:	Not determined
Oxidizing properties:	Not determined	Evaporation rate:	Not determined
9.3. Other information			
None.			

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10. Stability and reactivity

Conditions to avoid:	Avoid all contact with the following reagents : ABX Basolyse, ABX Basolyse II. Avoid all contact with acids or aqueous acid environments as extremely toxic cyanide acid fumes may be formed.
Materials to avoid:	None determined.
Hazardous decomposition products:	Cyanide acid fumes formed upon contact with acids.
Other data:	None.

11. Toxicological information

Acute toxicity:	The danger of serious intoxication exists in case of absorption or inhalation. Potassium cyanide : LD50 oral rat : 10 mg/kg
Chronic toxicity:	Not determined.
Inhalation:	Not determined.
Skin contact:	Not determined.
Eye contact:	Not determined.
Ingestion:	Not determined.
Other data:	None.

12. Ecological information

12.1. Ecotoxicity:	Not determined.
12.2. Mobility:	The product is dangerous in water and toxic to fish and plancton. KCN in its pure state is extremely toxic to fish. LC50 leuciscus idus "forma orfus" : 0.07 - 1 mg/L.
12.3. Degradability:	Not determined.
12.4. Bioaccumulative potential:	Not determined.
12.5. Results of PBT assessment:	Not determined.
12.6. Other hazardous effects:	Not determined.

13. Disposal considerations

Surplus or waste (residues) Contaminated packaging	It is advisable to avoid or reduce the generation of waste products wherever possible. Empty containers may contain product residues. Discard all waste, unused products, and contaminated packaging in accordance with current legislation. If you are in any doubt over the regulations, further information can be obtained from the competent authorities.
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14. Transport information (International regulations)	
General information:	None.
By air (IATA):	Not applicable.
By land (ADR):	Not applicable.
By sea (IMDG):	Not applicable.

15. Regulatory information		
Symbols:	N	Dangerous for the environment
R phrases:	R50/53	Very toxic to aquatic organism, may cause long term adverse effects in the aquatic environment.
S phrases:	S29 S61	Do not empty into drains Avoid release to the environment
Substances:	None.	
Specific provisions and related laws:	None.	
Other regulatory requirements:	In no way does this information exempt the user from knowing about or applying all the national or international regulations relating to his/her activity.	

16. Other information	
16.1. List of relevant R phrases	
R22 R36/37/38 R50/53	Harmful if swallowed Irritating to eyes, respiratory system and skin Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
16.2. Recommended restriction on use	
See specific information given in the product user information.	
16.3. Further information	
This sheet is a complement to instructions for use but does not replace them. Information contained herewith is based on our current knowledge of the product, at the date shown, and is correct to the best of our knowledge. Furthermore, the user's attention is drawn to the dangers of using this product for anything other than its intended use. The user must accept the sole responsibility and take precautions accordingly for the use of this product.	
16.4. Sources of key data	
This document has been compiled with information extracted from documents given by our raw material suppliers.	
16.5. Revision	
The sections that have been modified from the previous version are indicated by a vertical line on the left side of the table.	