

02/13/2017

Kit Components

Product code	Description	
1955377G	Biogenic Amines by HPLC, MP	
	Diogenie Timines by III Ec, 141	
Components:		
1955377	Biogenic Amines by HPLC, MP	



Printing date 02/13/2017 Reviewed on 02/10/2017

1 Identification

· 1.1 Product identifier

· Trade name: Biogenic Amines by HPLC, MP

· Article number: 1955377

· Application of the substance / the mixture In-Vitro-laboratory reagent or component

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Bio-Rad Laboratories, Inc 4000 Alfred Nobel Drive Hercules, California 94547

USA

Phone: 510-724-7000

Toll-Free: 1-800-2-BIORAD (800-224-6723)

Fax: 510-741-6373

· Information department:

Technical Support:

Email: support@bio-rad.com

1.4 Emergency telephone number:
GBK Gefahrgut Büro GmbH

Tel.: 0049(0)6123-84463

2 Hazard(s) identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapor.

Acute Tox. 5 H333 May be harmful if inhaled.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

· Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labeling:

acetonitrile

· Hazard statements

H226 Flammable liquid and vapor. H333 May be harmful if inhaled.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P240 Ground/bond container and receiving equipment.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · 3.2 Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

75-05-8 acetonitrile

1-<10%

4 First-aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

· 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 information.

· Protective Action Criteria for Chemicals

<i>PAC-1</i> :		
75-05-8	acetonitrile	13 ppm
6131-90-4	sodium acetate trihydrate	11 mg/m3
6381-92-6	Titriplex III (ethylendinitrilotetraacetic acid disodium salt dihydrat)	30 mg/m ³
<i>PAC-2</i> :		
75-05-8	acetonitrile	50 ppm
6131-90-4	sodium acetate trihydrate	120 mg/m3
6381-92-6	Titriplex III (ethylendinitrilotetraacetic acid disodium salt dihydrat)	330 mg/m3
PAC-3:		
75-05-8	acetonitrile	150 ppm
6131-90-4	sodium acetate trihydrate	690 mg/m3
6381-92-6	Titriplex III (ethylendinitrilotetraacetic acid disodium salt dihydrat)	2,000 mg/m ²

7 Handling and storage

- · 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters

· Com	· Components with limit values that require monitoring at the workplace:	
75-0	75-05-8 acetonitrile	
PEL	Long-term value: 70 mg/m³, 40 ppm	
REL	Long-term value: 34 mg/m³, 20 ppm	
TLV	Long-term value: 34 mg/m³, 20 ppm	
	Skin	

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- · Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

Odor threshold:	Not determined.
Odor:	Characteristic
Color:	Colorless
Form:	Fluid
Appearance:	

· 9.1 Information on basic physical and chemical properties

· pH-value at 20 °C (68 °F):

· Change in condition

· General Information

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 78 °C (172 °F)

• Flash point: 43 °C (109 °F)

• Flammability (solid, gaseous): Not applicable.

· Ignition temperature:

Decomposition temperature:Not determined.Auto igniting:Product is not selfigniting.

4.9

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)	
Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· 9.2 Other information	No further relevant information available.	

10 Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:

May be harmful if inhaled.

- · Primary irritant effect:
- · on the skin: Based on available data, the classification criteria are not met.
- · on the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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12 Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

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· 14.1 UN-Number · DOT, ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name	
·DOT	Flammable liquids, n.o.s. (Acetonitrile)
$\cdot ADR$	1993 Flammable liquids, n.o.s. (Acetonitrile), special
	provision 640E
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)

- · 14.3 Transport hazard class(es)
- \cdot **DOT**



· Class 3 Flammable liquids

Label 3

· ADR, IMDG, IATA



Class 3 Flammable liquids

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Label	3
14.4 Packing group	
DOT, ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	30
EMS Number:	F- E , S - E
Stowage Category	A
14.7 Transport in bulk according to Anna	ex II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
<i>IMDG</i>	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S., SPECIAL
	PROVISION 640E (ACETONITRILE), 3, III

15 Regulatory information

None of the ingredients is listed.

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

- Sara	
Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
Section 313 (Specific toxic chemical listings):	
75-05-8 acetonitrile	
· TSCA (Toxic Substances Control Act):	
75-05-8 acetonitrile	
5324-84-5 sodium octane-1-sulphonate monohydrate	
7732-18-5 water, distilled, conductivity or of similar purity	
Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	

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Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

75-05-8 | acetonitrile | CBD, D |

TLV (Threshold Limit Value established by ACGIH)

75-05-8 | acetonitrile | A4 |

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS:

Bio-Rad Laboratories GmbH Heidemannstrasse 164 D-80939 Munich

· Contact:

Technical Support:

E-Mail: cts-ce@bio-rad.com

· Date of preparation / last revision 02/13/2017 / 1

· Abbreviations and acronyms:

 $RiD: \ R\`{e}glement\ international\ concernant\ le\ transport\ des\ marchandises\ dangereuses\ par\ chemin\ de\ fer\ (Regulations\ Concerning\ the\ International\ Transport\ of\ Dangerous\ Goods\ by\ Rail)$

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 5: Acute toxicity - Category 5

* * Data compared to the previous version altered.