

Printing date 02/24/2012 Reviewed on 01/26/2012

1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: Novapath HIV-1 Immunoblot Substrate Solution
- · Catalog or product number: 197-1008
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Diagnostic Group

4000 Alfred Nobel Drive

Hercules, California 94547

1(510)724-7000

· Information department:

Technical services, customer support

TechsupportUSSD@bio-rad.com

· Emergency telephone number:

1(800) 424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION, or ACCIDENT.

2 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:

7732-18-5 water

- · Identification number(s):
- · EC number: 231-791-2
- · Additional information: For the wording of the listed risk phrases refer to section 15.
- · Listing of dangerous and non-hazardous components:

77-86-1	Tris(hydroxymethyl)aminomethane	Xn R22	1.0-2.5%
		Xi R36	

3 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Contains a component that may be fetotoxic and/or teratogenic.

T; Toxic

R61: May cause harm to the unborn child.

- · Information concerning particular hazards for human and environment: not applicable
- · Classification system:

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

- · Label elements
- · Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

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· Code letter and hazard designation of product:



T Toxic

· Hazard-determining components of labelling:

N,N-dimethylformamide

· Risk phrases:

61 May cause harm to the unborn child

· Safety phrases:

Avoid exposure - obtain special instructions before use.

When using do not eat or drink.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately.

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

Health = 0Fire = 0

Reactivity = 0

4 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. Then consult a doctor.
- · After swallowing Induce vomiting and call for medical help.

5 Firefighting measures

- · Suitable extinguishing agents
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment (See section 8). Keep unprotected persons away.

- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to item 13.

Reference to other sections

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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7 Handling and storage

- · Handling
- · Precautions for safe handling Open and handle receptacle with care.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 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.

· Components with	limit values that	t require	monitoring at	the workplace:

68-12-2 N,N-dimethylformamide

PEL (United States)	30 mg/m³,	10 ppm
	Skin	

REL (United States) 30 mg/m³, 10 ppm

Skin

TLV (United States) 30 mg/m³, 10 ppm

Skin; BEI

26628-22-8 sodium azide

REL (United States) Short-term value: C 0.3** mg/m³, C 0.1* ppm

*as HN3 vapor; **as NaN3; Skin

TLV (United States) | Short-term value: C 0.29** mg/m³, C 0.11* ppm

*as HN3 vapor **as NaN3

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · 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.

Synthetic gloves

· Penetration time of glove material

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

· Eye protection: Safety glasses

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9 Physical and chemical properties

· General Information

· Appearance:

Form: Liquid
Color: Colorless
Odor: Odorless

• **pH-value at 20°C:** 9.6

· Change in condition

Melting point/Melting range: 0°C
Boiling point/Boiling range: 100°C

· Flash point: Not applicable

• Danger of explosion: Product does not present an explosion hazard.

Vapor pressure at 20°C: 23 hPa
 Density at 20°C: 1 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible

· Solvent content:

Organic solvents: 0.0 % Water: 97.7 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

· Acute toxicity:

· LD/LC50 values	for hazardous	components	nor OSHA	critoria:
· LU/LUJU Values	IUI HAZAIUUUS	COMBUNETIES	UEI USHA	Gilleria.

68-12-2 N,N-dimethylformamide

 Oral
 LD50
 7600 mg/kg (rat)

 Dermal
 LD50
 5000 mg/kg (rbt)

 Inhalative
 LC50/4 h
 9400 mg/l (mus)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritant effect.
- · Sensitization: No sensitizing effects known.

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12 Ecological information

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Additional ecological information:
- · General notes: Generally not hazardous for water.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Hand over to hazardous waste disposers.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

- · Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex II of MARPOL73/78		

Not applicable.

15 Regulatory information

and the IBC Code

- · SARA (Superfund Amendents and Reauthorization Act of 1986 USA)
- Section 302/304 (40CFR355.30 / 40CFR355.40):

None of the ingredients is listed.

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- Section 313 (40CFR372.65):
 - 68-12-2 N,N-dimethylformamide
- · TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

68-12-2 N,N-dimethylformamide

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

- · National regulations
- · Technical instructions (air):

Class	Share in %
NK	1.0-2.5

· Water hazard class: Generally not hazardous for water.

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 MSDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· * Data compared to the previous version altered.

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