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Material Safety Data Sheet

Reviewed on 02/28/2008

Printing date 06/03/2008

1 Identification of substance:

- · Product details:
- · Trade name: Bio-SafeTM Coomassie Stain
- · Catalog or product number: 1610786, 1610787, 1610786S, 1610787EDU, 9704607
- Application of the substance / the preparation Laboratory chemicals
- · Manufacturer/Supplier:

Bio-Rad Laboratories, Life Science Group

2000 Alfred Nobel Drive

Hercules, California 94547

(510)741-1000

- · Information department: Technical services, customer support.
- · Emergency information:
- 1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT. 510-741-1000

2 Composition/Information on components:

- · Chemical characterization
- · Description: Mixture of the substances listed below with non-hazardous additions.

· Listing of dangerous and non-hazardous components:			
CAS: 7732-18-5 EINECS: 231-791-2	water	50-100%	
RTECS: ZC 0110000			
CAS: 7664-38-2 EINECS: 231-633-2	phosphoric acid C; R 34	2.5-5%	
RTECS: TB 6300000	Danger: Corrosion 3.2/1B		
EINECS: 200-659-6	T, F; R 11-23/24/25-39/23/24/25	0.1-1.0%	
	Danger: Flame 2.6/2; Skull and crossbones 3.1.0/2, 3.1.1/2; Health hazard 3.8/1		

· Additional information For the wording of the listed risk phrases refer to section 15.

3 Hazards identification

- Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment
- The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- · Classification system
- The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

4 First aid measures

- · General information No special measures required.
- · 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 Induce vomiting and call for medical help.

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5 Fire fighting measures

- · Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required
- · Measures for environmental protection:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting:

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

Dispose contaminated material as waste according to item 13.

· Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling
- Information for safe handling:

No special measures required.

No special precautions are necessary if used correctly.

- Information about protection against explosions and fires: No special measures required.
- 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.

8 Exposure controls and personal protection

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

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

7664-38-2 phosphoric acid

PEL () 1 mg/m³

REL () Short-term value: 3 mg/m3

Long-term value: 1 mg/m3 TLV () Short-term value: 3 mg/m3

Long-term value: 1 mg/m3

67-56-1 methanol

PEL () 260 mg/m³, 200 ppm

REL () Short-term value: 325 mg/m3, 250 ppm

Long-term value: 260 mg/m³, 200 ppm

TLV () Short-term value: 328 mg/m3, 250 ppm

Long-term value: 262 mg/m3, 200 ppm

Skin; BEI

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(Contd. of page 2) 64-17-5 ethanol PEL () 1900 mg/m³, 1000 ppm REL () 1900 mg/m³, 1000 ppm TLV () 1880 mg/m³, 1000 ppm

- Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.
- · 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. 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses

9 Physical and chemical pr	operties:		
General Information			
Form: Color: Odor:	liquid According to product specification Acrid		
· Change in condition Melting point/Melting range; undetermined Boiling point/Boiling range: 100°C			
· Flash point:	Not applicable		
· Auto igniting:	Product is not selfigniting.		
· Danger of explosion:	Product does not present an explosion hazard.		
· Vapor pressure at 20°C:	23 hPa		
· Density:	Not determined		
· Solubility in / Miscibility with Water:	Fully miscible		
· Solvent content: · Organic solvents: · Water:	1.1 % 93.9 %		

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known

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Trade name: Bio-Safe™ Coomassie Stain

· Dangerous products of decomposition: No dangerous decomposition products known

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11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values for hazardous components per OSHA criteria: 67-56-1 methanol

Oral | LD50 | 5628 mg/kg (rat) Dermal LD50 20000 mg/kg (rat)

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

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Target organs: Not applicable.

12 Ecological information:

General notes:

Water hazard class 1 (German Regulation) (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.

13 Disposal considerations

- · Product:
- · Recommendation Hand over to hazardous waste disposers.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- · DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- · Marine pollutant: No

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- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

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- · UN "Model Regulation": -
- · Transport/Additional information: Not dangerous according to the above specifications.

15 Regulations	
SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)	
· Section 302/304 (40CFR355.30 / 40CFR355.40):	
None of the ingredients is listed.	
· Section 313 (40CFR372.65):	
67-56-1 methanol	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
None of the incredients is listed	

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

· MAK (German Maximum Workplace Concentration)

64-17-5 ethanol

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

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Markings according to EU guidelines:

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

· Safety phrases:

35 This material and its container must be disposed of in a safe way.

· National regulations

Class	Share in %	
I	0.1-1.0	
NK	0.01-0.1	

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· Water hazard class: Water hazard class 1 (Self-assessment): slightly 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.

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

· Abbreviations and acronyms:

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

RID: Reglement internationale concernent le transport des merchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of

Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization
ICAO-II: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ACGHI: American Conference of Governmental Industrial Hygienists

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

* Data compared to the previous version altered.