

Material Safety Data Sheet

Printing date 09/10/2010

Reviewed on 09/09/2010

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

Product details:

Trade name: **Immun-Star™ Substrate**

Catalog or product number: 1705018, 1705018EDU, 9702837, 9702838

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 ingredients

Chemical characterization:

CAS No. Description:

7732-18-5 water

Identification number(s):

EINECS Number: 231-791-2

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

Chemical characterization

Listing of dangerous and non-hazardous components:

111-42-2	2,2'-iminodiethanol	Xn R22-48/22; Xi R38-41	1.0-2.5%
	CDP-Star		1.0-2.5%

3 Hazards identification

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void

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:

Observe the general safety regulations when handling chemicals

The substance is not subject to classification according to EU lists and other sources of literature known to us.

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

Safety phrases:

60 This material and its container must be disposed of as hazardous waste.

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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.

5 Firefighting 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.

Measures for cleaning/collecting:

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

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.

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.

8 Exposure controls/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: Not required.

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 Synthetic gloves

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• 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

• 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

• pH-value at 20°C: 10.6

• Organic solvents: 2.0 %

• Water: 95.0 %

• Solids content: 3.0 %

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• Materials to be avoided:

• Dangerous reactions: No dangerous reactions known

• Dangerous products of decomposition: No dangerous decomposition products known

11 Toxicological information

• Acute toxicity:

• Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritant effect.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

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.

The substance is not subject to classification according to the latest version of the EU lists.

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• Target organs: Not applicable.

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12 Ecological information

• Additional ecological information:

• General notes: Generally not hazardous for water.

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

• Air transport ICAO-TI and IATA-DGR:

• ICAO/IATA Class: -

• Transport/Additional information: Not dangerous according to the above specifications.

15 Regulatory information

• SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)

• Section 302/304 (40CFR355.30 / 40CFR355.40):

Substance not listed.

• Section 313 (40CFR372.65):

111-42-2 | 2,2'-iminodiethanol

• TSCA (Toxic Substances Control Act):

7732-18-5 | water

111-42-2 | 2,2'-iminodiethanol

• Carcinogenic categories

• EPA (Environmental Protection Agency)

Substance is not listed.

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IARC (International Agency for Research on Cancer)

111-42-2 | 2,2'-iminodiethanol

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NTP (National Toxicology Program)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

MAK (German Maximum Workplace Concentration)

111-42-2 | 2,2'-iminodiethanol

3B

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

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

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

USA

