

## Material Safety Data Sheet

Printing date 09/29/2011

Reviewed on 09/29/2011

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

- **Product identifier**
- **Trade name:** Nitrocellulose Paper 7X8.4 cm, 8 ea
- **Catalog or product number:** 1662807, 10005366, 10009401, 1662807EDU
- **CAS Number:**  
9004-70-0
- **Index number:**  
603-037-01-3
- **Application of the substance / the preparation** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **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 telephone number:**  
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:** Substances
- **CAS No. Description:**  
9004-70-0 nitrocellulose
- **Identification number(s):**
- **Index number:** 603-037-01-3
- **Additional information:** For the wording of the listed risk phrases refer to section 15.

**3 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Flammable.  
F; Highly flammable  
R11: Highly flammable.
- **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
- **Code letter and hazard designation of product:**



F Highly flammable

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· **Risk phrases:**

11 Highly flammable.

· **Safety phrases:**

16 Keep away from sources of ignition - No smoking.

33 Take precautionary measures against static discharges.

37/39 Wear suitable gloves and eye/face protection.

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

**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.
- **After swallowing** Induce vomiting and call for medical help.

**5 Firefighting measures**

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment (See section 8). Keep unprotected persons away.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **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.

**7 Handling and storage**

- **Handling**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

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· **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 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** Wash hands before breaks and at the end of work.
- **Protection of hands:** Protective gloves.
- **Material of gloves** 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  
Tightly sealed goggles.

## \* 9 Physical and chemical properties

- |  |   |
|--|---|
| · <b>General Information</b>           |   |
| · <b>Appearance:</b>                   |   |
| Form:                                  | Solid.  |
| Color:                                 | Whitish                                       |
| · <b>Odor:</b>                         | Odorless                                      |
| · <b>Odour threshold:</b>              | Not determined.                               |
| · <b>pH-value:</b> Not applicable.     |   |
| · <b>Change in condition</b>           |   |
| Melting point/Melting range:           | undetermined                                  |
| Boiling point/Boiling range:           | undetermined                                  |
| · <b>Flash point:</b>                  | > 100°C                                       |
| · <b>Flammability (solid, gaseous)</b> | Highly flammable.                             |
| · <b>Ignition temperature:</b>         |   |
| Decomposition temperature:             | Not determined.                               |
| · <b>Auto igniting:</b>                | Not determined.                               |
| · <b>Danger of explosion:</b>          | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>             |   |
| Lower:                                 | Not determined.                               |
| Upper:                                 | Not determined.                               |
| · <b>Vapor pressure:</b>               | Not applicable.                               |
| · <b>Density at 20°C:</b>              | 1.65 g/cm <sup>3</sup>                        |
| · <b>Relative density</b>              | Not determined.                               |
| · <b>Vapour density</b>                | Not applicable.                               |
| · <b>Evaporation rate</b>              | Not applicable.                               |

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- |   |  |
|---|--|
| · <b>Solubility in / Miscibility with Water:</b>    | Fully miscible                             |
| · <b>Segregation coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                                 |  |
| dynamic:  | Not applicable.                            |
| kinematic:  | Not applicable.                            |
| Organic solvents:                                   | 0.0 %                                      |
| Solids content:                                     | 100.0 %                                    |
| · <b>Other information</b>                          | 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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effects known.

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

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## 14 Transport information

· UN-Number	
· DOT	UN3270
· ADR, IMDG, IATA	3270
· UN proper shipping name	
· DOT, IATA	NITROCELLULOSE MEMBRANE FILTER (less than 12.6% nitrogen by dry mass)
· ADR	3270 NITROCELLULOSE MEMBRANE FILTER
· IMDG	NITROCELLULOSE MEMBRANE FILTER
· Transport hazard class(es)	
· DOT, IMDG, IATA	
· Class	4.1 Flammable solids, self-reactive substances and solid desensitised explosives.
· Label	4.1
· ADR	
· Class	4.1 Flammable solids, self-reactive substances and solid desensitised explosives
· Label	4.1+6.1
· Packing group	
· DOT, IMDG, IATA	II
· ADR	I
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable. Warning: Flammable solids, self-reactive substances and solid desensitised explosives
· Danger code (Kemler):	46
· EMS Number:	F-A,S-I
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

## 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):

Substance is not listed.

## · TSCA (Toxic Substances Control Act):

Substance is listed.

## · Carcinogenic categories

## · EPA (Environmental Protection Agency)

Substance is not listed.

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· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **MAK (German Maximum Workplace Concentration)**

Substance is not listed.

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

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

· **National regulations**· **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.**