

Material Safety Data Sheet

Printing date 03/16/2010

Reviewed on 10/08/2009

1 Identification of substance:· **Product details:**· **Trade name:** Nitrocellulose Paper 7X8.4 cm, 8 ea· **Catalog or product number:** 1662807, 10005366, 10009401, 1662807EDU· **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:**· **CAS No. Description:**

cellulose nitrate

· **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**· **Emergency overview:**

Flammable.

F Highly flammable

· **Information pertaining to particular dangers for man and environment**

R 11 Highly flammable.

· **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.

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 Fire fighting measures**· **Suitable extinguishing agents** Use fire fighting measures that suit the environment.· **For safety reasons unsuitable extinguishing agents** Water with full jet.

(Contd. on page 2)

USA

Material Safety Data Sheet

Printing date 03/16/2010

Reviewed on 10/08/2009

Trade name: Nitrocellulose Paper 7X8.4 cm, 8 ea

(Contd. of page 1)

· **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment (See section 8). Keep unprotected persons away.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

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:**
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.

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:** 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:

· General Information

Form:	Solid.
Color:	White
Odor:	Odorless

(Contd. on page 3)

Material Safety Data Sheet

Printing date 03/16/2010

Reviewed on 10/08/2009

Trade name: Nitrocellulose Paper 7X8.4 cm, 8 ea

(Contd. of page 2)

- **Change in condition**
Melting point/Melting range: undetermined
Boiling point/Boiling range: undetermined
- **Flash point:** > 100°C
- **Flammability (solid, gaseous)** Highly flammable.
- **Ignition temperature:** 180°C
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
Lower: 3.5 Vol %
Upper: 15 Vol %
- **Vapor pressure at 20°C:** 58.7 hPa
- **Density at 20°C:** 1.65 g/cm³
- **Bulk density at 20°C:** 0.25 kg/m³
- **Solubility in / Miscibility with**
Water: Insoluble
Organic solvents: 0.0 %
- **Solids content:** 100.0 %

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.

12 Ecological information:

- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.

USA

(Contd. on page 4)

Material Safety Data Sheet

Printing date 03/16/2010

Reviewed on 10/08/2009

Trade name: Nitrocellulose Paper 7X8.4 cm, 8 ea

(Contd. of page 3)

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Hand over to hazardous waste disposers.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**
- **Hazard class:** 4.1
- **Identification number:** UN3270
- **Packing group:** II
- **Proper shipping name (technical name):** NITROCELLULOSE MEMBRANE FILTER (less than 12.6% nitrogen by dry mass)
- **Label** 4.1
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 4.1 Flammable solids, self-reactive substances and solid desensitised explosives
- **Danger code (Kemler):** 46
- **UN-Number:** 3270
- **Packing group:** I
- **Label** 4.1+6.1
- **Description of goods:** 3270 NITROCELLULOSE MEMBRANE FILTER
- **Maritime transport IMDG:**
- **IMDG Class:** 4.1
- **UN Number:** 3270
- **Label** 4.1
- **Packing group:** II
- **EMS Number:** F-A,S-I
- **Marine pollutant:** No
- **Proper shipping name:** NITROCELLULOSE MEMBRANE FILTER
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 4.1
- **UN/ID Number:** 3270
- **Label** 4.1
- **Packing group:** II
- **Proper shipping name:** NITROCELLULOSE MEMBRANE FILTER (less than 12.6% nitrogen by dry mass)

USA

(Contd. on page 5)

Material Safety Data Sheet

Printing date 03/16/2010

Reviewed on 10/08/2009

Trade name: Nitrocellulose Paper 7X8.4 cm, 8 ea

(Contd. of page 4)

15 Regulations

· 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 not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· 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.

· Markings 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

· 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.

· 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.

(Contd. on page 6)

USA

Material Safety Data Sheet

Printing date 03/16/2010

Reviewed on 10/08/2009

Trade name: Nitrocellulose Paper 7X8.4 cm, 8 ea

(Contd. of page 5)

· 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 —