

Printing date 06/18/2015 Reviewed on 06/16/2015

1 Identification

- · Product identifier
- · Trade name: Supported Nitrocellulose Membrane 0.2, 0.45 micron
- · Catalog or product number:

1620090, 1620091, 1620092, 1620093, 1620094, 1620070, 1620254, 1620070EDU, 1620090EDU, 1620091EDU, 1620092EDU, 1620093EDU, 1620094EDU, 1620071, 1620095, 1620096, 1620097, 1620253, 1620071EDU, 1620095EDU, 1620096EDU, 1620097EDU

· CAS Number:

9004-70-0

· Index number:

603-037-01-3

· Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture 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

Hercules, California 94547

(510)741-1000

· Information department:

Technical services, customer support

lsg_techserv_us@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.

510-741-1000

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Sol. 1 H228 Flammable solid.

- · Label elements
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



- · Signal word Danger
- · Hazard statements

H228 Flammable solid.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective clothing / eye protection.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

· Additional information: Contact with acids may cause release of toxic gases

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- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · vPvB: Not applicable.

3 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.

4 First-aid measures

- · Description of 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.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · 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.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · 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.



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7 Handling and storage

- Handling
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · 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.
- · Control parameters
- · 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.
- · Exposure controls
- Personal protective equipment
- · General protective and hygienic measures Wash hands before breaks and at the end of work.

Not applicable

- · 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

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid Color: Whitish Odorless · Odor: Not determined. · Odour threshold:

· pH-value: Not applicable.

· Change in condition

Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined · Flash point:

· Flammability (solid, gaseous) Product is not flammable.

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· Ignition temperature:			
Decomposition temperature:	Not determined.		
· Auto igniting:	Not determined.		
· Danger of explosion:	Product does not present an explosion hazard.		
· Explosion limits:			
Lower:	Not determined.		
Upper:	Not determined.		
· Vapor pressure:	Not applicable.		
· Density at 20 °C:	1.65 g/cm³		
· Relative density	Not determined.		
Vapour density	Not applicable.		
· Evaporation rate	Not applicable.		
· Solubility in / Miscibility with			
Water:	Fully miscible		
· Partition coefficient (n-octanol/wa	ter): Not determined.		
· Viscosity:			
dynamic:	Not applicable.		
kinematic:	Not applicable.		
Organic solvents:	0.0 %		
Solids content:	100.0 %		
· Other information	No further relevant information available.		

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

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

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- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · 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.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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.

14 I	rans	port	m	ormai	tion

. IIN-Number

· ON-Number	
· DOT, ADR, IMDG, IATA	UN3270

· UN proper shipping name

NITROCELLULOSE MEMBRANE FILTER (less than 12.6% nitrogen by dry mass)

· ADR 3270 NITROCELLULOSE MEMBRANE FILTER
· IMDG NITROCELLULOSE MEMBRANE FILTER

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· Transport hazard class(es)		
· DOT, ADR, IMDG, IATA		
· Class	4.1 Flammable solids, self-reactive substances and solid desensitised explosives	
· Label	4.1	
· Packing group · DOT, ADR, IMDG, IATA	II	
· Environmental hazards:		
· Marine pollutant:	No	
· Special precautions for user	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.	
· UN "Model Regulation":	UN3270, Nitrocellulose membrane filters, 4.1, II	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendents 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.

· 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.

- · National regulations
- · Water hazard class: Generally not hazardous for water.

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

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 SDS: 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

- · Date of preparation / last revision 06/18/2015 / -
- · Abbreviations and acronyms:

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Flam. Sol. 1: Flammable solids, Hazard Category 1

* * Data compared to the previous version altered.

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