Version number 3

Revision: 03.05.2018

	SFR\/A
• Trade name: <u>NC 2 Nitrocellulose Membrane</u> , white	serving scientists
• Article number: 71223 • 1.2 Relevant identified uses of the substance or mixture and u No further relevant information available. • Application of the substance / the mixture Laboratory chemic	
• 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: SERVA Electrophoresis GmbH Carl-Benz-Str. 7 D-69115 Heidelberg Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10 msds.info@serva.de	dis Gmb.
<ul> <li>Information department: Product Safety department Tel.: +49</li> <li>1.4 Emergency telephone number: Medical Emergency Information in case of poisoning: Poison Information Center Mainz - Phone: +49 (0) 6131 19240 (advisory service in German or English language)</li> </ul>	CO CO
0)	
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008	
Classification according to Regulation (EC) No 1272/2008	
Classification according to Regulation (EC) No 1272/2008 GHS02 Flam. Sol. 1 H228 Flammable solid.	
<ul> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>GHS02</li> <li>Flam. Sol. 1 H228 Flammable solid.</li> <li>2.2 Label elements</li> <li>Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation (EC) No 1272/2008</li> <li>Hazard pictograms GHS02</li> <li>Signal word Danger</li> <li>Hazard statements</li> <li>H228 Flammable solid.</li> <li>Precautionary statements</li> <li>P210 Keep away from heat, hot surfaces, sparks, open file P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ventilating/lighting</li> <li>P280 Wear protective gloves/protective clothing/eye propation of the P370+P378 In case of fire: Use for extinction: CO2, powder of 2.3 Other hazards</li> <li>Results of PBT and vPvB assessment</li> </ul>	lames and other ignition sources. No smokin equipment. otection/face protection.
<ul> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>GHS02</li> <li>Flam. Sol. 1 H228 Flammable solid.</li> <li>2.2 Label elements</li> <li>Labelling according to Regulation (EC) No 1272/2008</li> <li>The product is classified and labelled according to the CLP regulation (according to the CLP regulation (according to the CLP regulation (b) No 1272/2008</li> <li>Hazard pictograms GHS02</li> <li>Signal word Danger</li> <li>Hazard statements</li> <li>H228 Flammable solid.</li> <li>Precautionary statements</li> <li>P210 Keep away from heat, hot surfaces, sparks, open for P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ventilating/lighting</li> <li>P280 Wear protective gloves/protective clothing/eye prop370+P378 In case of fire: Use for extinction: CO2, powder of 2.3 Other hazards</li> </ul>	lames and other ignition sources. No smokin equipment. otection/face protection.

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Identification number(s):
Index number: 603-037-00-6

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# Safety data sheet

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Trade name: NC 2 Nitrocellulo	ose Membrane, white	
• 3.2 Chemical characterisat • Description: Mixture of the	<b>tion: Mixtures</b> e substances listed below with harmless ad	(Contd. of page
• <b>Dangerous components:</b> Nitrocellulose, nitrogen cor		
9004-70-0 cellulose nitrate		🚸 Flam. Sol. 1, H228 40-70%
• Additional information For	r the wording of the listed hazard phrases	refer to section 16.
SECTION 4: First aid m	neasures	
<ul> <li>After skin contact Immedia</li> <li>After eye contact Rinse opened eye for severa continue rinsing. Consult op</li> <li>After swallowing Drink cop</li> <li>4.2 Most important sympton No further relevant information</li> </ul>	esh air; consult doctor in case of complain nately wash with water and soap and rinse t al minutes under running water. Remove p ophthalmologist In case of complaints. pious amounts of water and provide fresh oms and effects, both acute and delayed ation available. ediate medical attention and special treat	thoroughly. present contact lenses, if easy to do, an air. Call for doctor immediately.
SECTION 5: Firefightin	ig measures	
<ul> <li>5.2 Special hazards arising In case of fire, the following Nitrogen oxides (NOx) Hydrogen cyanide (HCN) In certain fire conditions, th HNO<sub>3</sub></li> <li>5.3 Advice for firefighters</li> </ul>	ents r or water spray. Fight larger fires with wa g from the substance or mixture g can be formed, but not limited to: races of other toxic gases cannot be exclu ar self-contained respiratory protective de	uded, e.g.:
SECTION 6: Accidental	release measures	

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#### Trade name: NC 2 Nitrocellulose Membrane, white

• Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

• Requirements to be met by storerooms and receptacles: Keep away from sources of heat.

· Information about storage in one common storage facility:

Do not store together with strong oxidizing agents.

• Further information about storage conditions: Keep receptacle tightly sealed and store in dry conditions.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

· 8.1 Control parameters

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation were used as basis.

· 8.2 Exposure controls

- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Store protective clothing separately.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

• Breathing equipment: Suitable respiratory protective device recommended.

- · Protection of hands:
- Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.* 

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Cotton gloves

• Eye protection: Safety glasses

· Body protection: Protective work clothing.

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### Trade name: NC 2 Nitrocellulose Membrane, white

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9.1 Information on basic physical ar	nd chemical properties	
General Information		
Appearance:		
Form:	sheets	
Colour:	White	
Odour:	Odourless	
Change in condition		
Melting point/freezing point:	undetermined	
Initial boiling point and boiling ra	nge: undetermined	
Flash point:	Not applicable	
Flammability (solid, gaseous)	Highly flammable.	
Ignition temperature:	170 °C	
Self igniting:	Product is not selfigniting.	
Explosive properties:	Not determined.	
Density:	Not determined	
Solubility in / Miscibility with Water:	Insoluble	
	monor	
Solvent content:	0.0.0/	
Organic solvents:	0.0 %	
Solids content:	100.0 %	
9.2 Other information	No further relevant information available.	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions Reacts with acids
- · 10.4 Conditions to avoid Avoid high temperatures, flames, sparks
- · 10.5 Incompatible materials: Avoid contact with strong oxidizers.
- 10.6 Hazardous decomposition products: In case of fire: See Section 5

# **SECTION 11: Toxicological information**

• 11.1 Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.

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· Aspiration hazard Based on available data, the classification criteria are not met.

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# **SECTION 12: Ecological information**

#### · 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- · 12.6 Other adverse effects No further relevant information available.

# **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

- · Uncleaned packagings:
- · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

· 14.1 UN-Number · ADR, IMDG, IATA	UN3270
$\cdot$ 14.2 UN proper shipping name	
·ADR	3270 NITROCELLULOSE MEMBRANE FILTER
·IMDG	NITROCELLULOSE MEMBRANE FILTERS
·IATA	Nitrocellulose membrane filters
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	4.1 Flammable solids, self-reactive substances and solution desensitised explosives.
· Label	4.1
· 14.4 Packing group	
· ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	
· Marine pollutant:	No
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· Danger code (Kemler):	_
· EMS Number:	F-A,S-I
· 14.7 Transport in bulk according to A	Annex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1 kg
· Transport category	2
• Tunnel restriction code	E
· UN "Model Regulation":	UN3270, NITROCELLULOSE MEMBRANE FILTER, 4.1, II

### **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · National regulations
- · Water hazard class: At present there are no ecotoxicological assessments.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 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.

• **Relevant phrases** H228 Flammable solid.

· Department issuing SDS: Product safety department

- · Contact: +49 6221 13840-35
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

- PBT: persistent, bioaccumulative, toxic substance (REACH)
- *vPvB: very persistent, very bioaccumulative substance (REACH)*
- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

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
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Sol. 1: Flammable solids Category 1
- \* Data compared to the previous version altered.