



## Cellulose Nitrate Membrane Filter

according to EC directive 93/112/EC

Print Date 09/12/2003  
Version 1 ; Revision date 12.09.2003

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND TRADE NAME

#### Product information

Trade name : Cellulose Nitrate Membrane Filter (white, grey, green)

Company : Sartorius AG  
Weender Landstrasse 94-108  
D-37075 Goettingen

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Contact person: : Dr. Joachim Rieger

### 2. COMPOSITION/INFORMATION OF INGREDIENTS

#### Chemical nature

Cellulose Nitrate with nitrogen = 12,6 %

CAS-No. for main substance : 9004-70-0  
Index-No. for main substance : 603-037-01-3  
UN-No : 3270 (only with yellow interleaf paper)

### 3. POSSIBLE HAZARDS

#### Risk advice to human and the environment

F Highly flammable

Nitrocellulose membrane filter is a flammable material. The ignition of nitrocellulose membrane filter may be initiated by flame, sparks, shock, heat or friction. The formation of nitrous vapours is possible in case of fire. Nitrocellulose membrane filters without interleaf paper have explosive properties. Storage under improper conditions could initiate the self-decomposition with formation of nitrous vapours or self-ignition.

### 4. FIRST AID MEASURES

General advice : The formation of nitrous gas is possible (brown-yellow gas) in case of fire or self-decomposition. In case of feeling indisposed get medical advice. Show this safety data sheet to the doctor in attendance.

Inhalation : Persons, who inhaled nitrous gases, should lay down and keep calm. If symptoms persist, call a physician. The symptoms of poisoning with nitrous gases can appear several hours later.



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### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water only
- Extinguishing media which must not be used for safety reasons : dry powder  
foam  
carbon dioxide (CO<sub>2</sub>)
- Further information : In case of fire the formation of nitrous gases and explosive flames is possible. To extinguish use only water.

### 6. MEASURES AFTER ACCIDENTAL POLLUTION

- Cleaning Procedure : Add lots of water and remove. Avoid sources for ignition, shock and friction. Do not smoke.

### 7. HANDLING AND STORAGE

#### Handling

- Advice for safe handling : Read the note of the German workers compensation organization of the Chemical Industry to handle nitrocellulose. Use oldest materials first. Obey the expiration date.
- Advice on protection against fire and explosion : Take measures to avoid electrostatic charge.  
Keep away from sources of ignition - No smoking.  
Avoid shock and friction.  
Protect from direct sunlight.

#### Storage

- Requirements for storage areas and containers : Keep away from sources of ignition. - No smoking.  
Keep cool. Do not store without interleaf paper. Do not store with acids, caustic substances, amines, oxidants or fire accelerating substances.  
Store in original packaging.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Personal protective equipment

- Protective measures : No special protective equipment is required.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form : Solid  
Color : white - green - gray  
Odor : none

#### Safety data

Ignition temperature : Above 185 °C  
Solubility : soluble in ketones, ester and alcohols  
Water solubility : insoluble

### 10. STABILITY AND REACTIVITY

Materials to avoid : Oxidants  
Amines  
Strong acids and strong caustic substances

### 11. TOXICOLOGICAL INFORMATION

Further information : Health injuries are not known or expected under normal use.

### 12. ECOLOGICAL INFORMATION

#### Additional ecological information

Additional ecological information : This product has no known eco-toxicological effects.

### 13. DISPOSAL CONSIDERATIONS

Product : Self-decomposed material has to be stored in water. Moisten used filter material with water (50 %) and store it in tightly closed containers until the final waste disposal.  
In accordance with local and national regulations.

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**ADR** : UN-No **3270**  
Class 4.1  
Item  
Packaging group II  
Description of the goods Nitrocellulose Membrane Filters

**IMDG** : UN-No **3270**  
Class 4.1  
EmS F-A, S-I  
  
IMDG Page 237, Amdt 31-02  
Packaging group II  
Marine pollutant  
Description of the goods Nitrocellulose Membrane Filters

**IATA\_C** : UN-No **3270**  
Class 4.1  
Packaging group II  
Description of the goods Nitrocellulose Membrane Filters

**15. REGULATIONS****Labeling according to EEC Directives**

Symbol(s) : F Highly flammable.  
R-phrases : R11 Highly flammable.  
S-phrases : S16 Keep away from sources of ignition. - No smoking.  
S33 Take measures to avoid electrostatic charge.  
Further information : Cellulose nitrate filters with interleaving paper are flammable solids.

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### 16. OTHER INFORMATION

#### Further information

The information provided in this Safety Data Sheet is according to our latest knowledge and information at the date of its publication. The information given should be understood as a guide for safe handling with this product for storage, processing, transportation and disposition. The information is not valid for other products, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and is not valid for such material used in combination or manufacturing with any other materials or in any processing, unless specified in the text.

Information is taken from reference works and the literature.

Information is based on practical experience.

The materials may be used only as described in the catalogue.