

SECTION 1: Product and Company Identification

Identification of the substance or mixture

Product Name: Nitrocellulose Membrane (10 x 10cm), pore size 0.22µm
Catalog #: 10631

Company Identification

Cepharm Life Sciences Inc.
11830 W Market Place, Suite K
Fulton, MD 20759
USA
Toll Free: 1-800-257-1565
Phone: 410-636-4954

24-hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Toll Free: 1-800-424-9300/ +1 703-527-3887 CCN 1010970

For Research Use Only. Not for use in diagnostic procedures.

SECTION 2: Hazards identification

Physical State	Solid
Odor	Odorless
OSHA / HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency Overview	Warning! FLAMMABLE SOLID Flammable solid. Keep away from heat, sparks and flame. Avoid contact with skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use.

Potential acute health effects

Eyes	No known significant effects or critical hazards.
Skin	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
Inhalation	No specific data.
Ingestion	No specific data.
Skin	No specific data.
Eyes	No specific data.

Medical conditions aggravated by over-exposure

None known.

See toxicological information (Section 11).

SECTION 3: Composition / Information on Ingredients

Name	CAS Number	% by weight
Nitrocellulose; with <12.6% N		100

SECTION 4: First Aid Measures

Eye contact	In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
Skin contact	Wash with soap and water. Get medical attention if symptoms appear.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion	Do not ingest. Get medical attention if symptoms appear.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

SECTION 5: Firefighting Measures

Flammability of the product	Flammable solid. Runoff to sewer may create fire or explosion hazard.
<u>Extinguishing media</u>	
Suitable	Use dry chemical, CO2, water spray (fog) or foam.
Not suitable	Do not use water jet.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental Release Measures

Personal precautions	Eliminate all ignition sources. Use personal protective equipment as required.
Environmental precautions	No special recommendations.
Methods for cleaning up	Pick up solids and put in an appropriate sealable container for later disposal.
Small spill	Pick up solids and put in an appropriate sealable container for later disposal.

SECTION 7: Handling & Storage

Handling	Keep away from sources of ignition.
Storage	Avoid all possible sources of ignition (spark or flame).

SECTION 8: Exposure Controls / Personal Protection

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	Product does not contain relevant quantities of materials with exposure values that have to be monitored.
Engineering measures	No special ventilation requirements.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protection Respiratory	A respirator is not needed under normal and intended conditions of product use.

Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a) Appearance	Form: solid Color: white
b) Odor	Odorless
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	0 kPa (0 mm Hg)
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	insoluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

Other safety information

No data available

SECTION 10: Stability & Reactivity

Stability	The product is stable.
Materials to avoid	Reactive or incompatible with the following materials: oxidizing materials
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur. Not considered to be a product presenting a risk of explosion.

SECTION 11: Toxicological Information

No data available.

SECTION 12: Ecological Information

Environmental effects	No known significant effects or critical hazards.
Aquatic ecotoxicity	
Conclusion / Summary	Not available.
Biodegradability	
Conclusion / Summary	Not available.
Other adverse effects	No known significant effects or critical hazards.

SECTION 13: Disposal Considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification





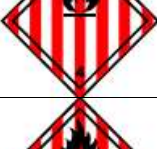

Not classified.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 14: Transport Information

International transport regulations

Regulatory Information	UN Number	Proper Shipping Name	Class	Packing group	Label	Additional information
DOT Classification	UN3270	MEMBRANE FILTER OF NITROCELLULOSE	4.1	II		-
TDG Classification	UN3270	MEMBRANE FILTER OF NITROCELLULOSE	4.1	II		-
Mexico Classification	UN3270	NITROCELLULOSE MEMBRANE FILTERS	4.1	II		-
ADR/RID Class	UN3270	MEMBRANE FILTER OF NITROCELLULOSE	4.1	II		CEPIC Tremcard 41G12
IMDG Class	UN3270	MEMBRANE FILTER OF NITROCELLULOSE	4.1	II		-
IATA Class	UN3270	NITROCELLULOSE MEMBRANE FILTERS	4.1	II		-

SECTION 15: Regulatory Information

HCS Classification

US Federal Regulation

Flammable solid

United States inventory (TSCA 8b): Not determined.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA302/304 emergency planning and notification: No products were found.

SARA302/304/311/312 hazardous chemicals: No products were found.

SARA311/312 MSDS Distribution – chemical inventory – hazard identification: No products were found

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

Connecticut Carcinogen Reporting: None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.
Florida substances: None of the components are listed.
Illinois Chemical Safety Act: None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
Louisiana Reporting: None of the components are listed.
Louisiana Spill: None of the components are listed.
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: None of the components are listed.
Michigan Critical Material: None of the components are listed.
Minnesota Hazardous Substances: None of the components are listed.
New Jersey Hazardous Substances: None of the components are listed.
New Jersey Spill: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
New York Acutely Hazardous Substances: None of the components are listed.
New York Toxic Chemical Release Reporting: None of the components are listed.
Pennsylvania RTK Hazardous Substances: None of the components are listed.
Rhode Island Hazardous Substances: None of the components are listed.

United States inventory (TSCA 8b)

Not determined

EU Regulations

Hazard symbol or symbols



Risk phrases
Safety phrases

R11 – highly flammable.
S16 – Keep away from sources of ignition – No smoking.
S33 – Take precautionary measures against static discharges.
S37/39 – Wear suitable gloves and eye / face protection.

International Regulations

International lists

Australia inventory (AICS): Not determined
China inventory (IECSC): Not determined
Japan inventory (ENCS): Not determined
Japan inventory (ISHL): Not determined
Korea inventory (KECI): Not determined
New Zealand Inventory of Chemicals (NZIoC): Not determined
Philippines inventory (PICCS): Not determined.

SECTION 16: Other Information

Label requirements

FLAMMABLE SOLID

Hazardous Material Information System (USA)

Health: 0
Flammability: 2
Physical hazards: 0

National Fire Protection Association (USA)

Health: 0
Flammability: 2
Instability: 0

Disclaimer:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not represent any guarantee of the properties of the product. Cepham Life Sciences Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.