



FILTER TECHNOLOGY

# SAFETY DATA SHEET

Issuing Date 09-Oct-2017

Revision Date 04-Dec-2018

Revision Number 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

**Product Name** Nitrocellulose Membrane

### Other means of identification

**UN-Number** UN3270

**Synonyms** Mixed Cellulose Ester (MCE) , Cellulose Nitrate.

### Recommended use of the chemical and restrictions on use

**Recommended Use** Filter applications.

**Uses advised against** Consumer use

### Supplier's details

#### **Supplier Address**

GVS North America Inc.

63 Community Drive

Sanford, Maine

04073

Telephone: 1-866-736-1250

### Emergency telephone number

**Emergency Telephone Number** CHEMTREC: 1-800-424-9300 for US/ 703-527-3887 outside US

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Flammable solids	Category 2
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### GHS Label elements, including precautionary statements

#### Emergency Overview

<b>Signal Word</b>	<b>Danger</b>
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• Flammable solid
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**Appearance** White, Black.**Physical State** Solid/compressed.**Odor** Odorless.**Precautionary Statements****Prevention**

- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Wear protective gloves/protective clothing/eye protection/face protection.

**General Advice**

- None

**Fire**

- In case of fire: Use CO2, dry chemical, or foam for extinction.

**Storage**

- None

**Disposal**

- None

**Hazard Not Otherwise Classified (HNOC)**

Not applicable.

**Other information**

No information available.

100% of the mixture consists of ingredient(s) of unknown toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Synonyms**

Mixed Cellulose Ester (MCE) , Cellulose Nitrate.

Chemical Name	CAS-No	Weight %	Trade secret
Nitrocellulose	9004-70-0	76-80	*
Glycerin	56-81-5	6-10	*

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.***4. FIRST AID MEASURES****Description of necessary first-aid measures****General Advice**

Under normal conditions of use first aid is not required.

**Eye Contact**

Rinse thoroughly with water as necessary.

**Skin Contact**

None under normal use.

**Inhalation**

None under normal use.

**Ingestion**

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** None known

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use: Carbon dioxide (CO<sub>2</sub>). Dry powder. Water spray.

**Unsuitable Extinguishing Media** No information available

**Specific Hazards Arising from the Chemical**

Flammable solid. Product may ignite and burn at temperatures exceeding the flash point.

**Explosion Data**

**Sensitivity to Mechanical Impact**

None.

**Sensitivity to Static Discharge**

Yes.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Remove all sources of ignition. Wear protective gloves/clothing and eye/face protection.

**Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** None required.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Keep away from heat, sparks and open flame. No smoking. Wear protective gloves/ eye protection/ face protection

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep away from heat and sources of ignition. Ideal storage 40 to 60% humidity.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerin 56-81-5	TWA: 10 mg/m <sup>3</sup> mist	-	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Appropriate engineering controls

**Engineering Measures** None under normal use conditions.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** No special protective equipment required.  
**Skin and Body Protection** No special protective equipment required.  
**Respiratory Protection** No protective equipment is needed under normal use conditions.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Solid/compressed.	<b>Appearance</b>	White, Black.
<b>Odor</b>	Odorless.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	No data available	None known
<b>Flash Point</b>	180 °C / 356 °F	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	No data available	
lower flammability limit	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known

**Flammable Properties** Flammable solid.

**Explosive Properties** No data available

**Oxidizing Properties** No data available

### Other information

**VOC Content (%)** No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

<b>Product Information</b>	There is no data available for this product
<b>Inhalation</b>	None under normal use conditions
<b>Eye Contact</b>	None under normal use conditions.
<b>Skin Contact</b>	None under normal use conditions.
<b>Ingestion</b>	None under normal use.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitrocellulose	> 5 g/kg ( Rat )	-	-
Glycerin	= 12600 mg/kg ( Rat )	21900 mg/kg ( Rat )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** None known

**Delayed and immediate effects and also chronic effects from short and long term exposure**

<b>Sensitization</b>	No information available
<b>Mutagenic Effects</b>	No information available
<b>Carcinogenicity</b>	Contains no ingredients above reportable quantities listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Nitrocellulose		Group 2A		X

<b>Reproductive Toxicity</b>	No information available
<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity - Product**

**Unknown acute toxicity** 100% of the mixture consists of ingredient(s) of unknown toxicity.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Not Classified

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Glycerin 56-81-5	-	LC50 96 h: 51 - 57 mL/L static (Oncorhynchus mykiss)	-	EC50 24 h: > 500 mg/L (Daphnia magna)

**Persistence and Degradability** No information available

**Bioaccumulation** No information available

Chemical Name	Log Pow
Glycerin	-1.76

**Other Adverse Effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. See Sections 7 and 8 for additional handling information.

**Contaminated Packaging** Follow guidelines listed in above.

### 14. TRANSPORT INFORMATION

**DOT**

UN-Number UN3270  
 Proper shipping name NITROCELLULOSE MEMBRANE FILTERS  
 Hazard Class 4.1  
 Packing Group II  
 Description UN3270, NITROCELLULOSE MEMBRANE FILTERS, 4.1, II  
 Emergency Response Guide Number 133

UN-Number UN3270  
 Proper Shipping Name NITROCELLULOSE MEMBRANE FILTERS  
 Hazard Class 4.1  
 Packing Group II  
 Description UN3270, NITROCELLULOSE MEMBRANE FILTERS, 4.1, II

UN-Number UN3270  
 Proper Shipping Name NITROCELLULOSE MEMBRANE FILTERS  
 Hazard Class 4.1  
 Packing Group II  
 Description UN3270, NITROCELLULOSE MEMBRANE FILTERS, 4.1, II

### 15. REGULATORY INFORMATION

**International Inventories**

Contact supplier for inventory compliance status

**TSCA** Complies

**DSL** All components are listed either on the DSL or NDSL.

## U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## U.S. State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Nitrocellulose	X	X	X	X	
Glycerin	X	X	X		X

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION

**NFPA** Health Hazard 0 Flammability 4 Instability 0 Physical and Chemical Hazards -

**HMIS** Health Hazard 0 Flammability 4 Physical Hazard 0 Personal Protection X

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

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**Revision Note** (M)SDS sections updated. 2. 7. Updated Logo to GVS Filter Technology.

### General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**