



# Material Safety Data Sheet (MSDS)

Issue/Revision Date: 27 October 2011

## Section 1. Product and Company Information

**Chemical Name:** Nitrocellulose/Cellulose Acetate Filtration membrane. Some membrane types have a proprietary non-hazardous surface treatment.

**Synonym(s):** Mixed Nitrocellulose/Cellulose Acetate Membrane

**Tradename:** MCE Filter

**Catalog No.:** 225-19, 225-1911, 225-1912, 225-1913, 225-1914, 225-1915, 225-1916, 225-1917, 225-1921, 225-1922, 225-1923, 225-1930, 225-1932, 225-1938, 225-1939, 225-1941, 225-334, 225-5, 225-504, 225-506, 225-531, 225-532, 225-9

**Company:** SKC Inc.

**Address:** 863 Valley View Road  
Eighty Four, PA 15330 U.S.A.

**Phone:** 724-941-9701

**Fax:** 724-941-1369

**Toll-free (U.S.):** 800-752-8472

**Email:** skctech@skcinc.com

**Web:** www.skcinc.com

## Section 2. Composition/Information on Ingredient(s)

Chemical Name	CAS #	EINECS #	Percent by Wt.
Nitrocellulose (Pyroxylin)	9004-70-0	Unlisted	20-25
Cellulose Acetate	9004-35-7	Unlisted	3-6
Proprietary surface treatment	Not Available	Not Available	<1

## Section 3. Hazards Identification

**Appearance:** White solid.

**Major Health Hazards:** No significant target effects reported.

**Physical Hazards:** Flammable Solid. Severe fire hazard.

### Health Effects

Route of Entry	Potential Health Effects and Symptoms of Exposure
Skin:	Repeated or prolonged contact may cause irritation and/or dry, cracked skin.
Eyes:	Although it is unlikely to occur, eye contact may cause irritation and burns.
Ingestion:	Although it is unlikely to occur, ingestion may cause digestive tract irritation, central nervous system depression and kidney damage.
Inhalation:	This product is not considered to represent an inhalation hazard.
Target organs:	Kidneys, central nervous system

Medical Conditions Aggravated by Exposure:	No information available.
Signs and Symptoms of Exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## Section 4. First Aid Measures

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**Ingestion:** This material is not expected to present an ingestion hazard in the quantities present in a workplace setting. However, if ingestion occurs, do not induce vomiting, have victim rinse mouth, drink 2-4 cups of water and seek medical attention.

**Eyes:** Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids. Get medical attention immediately.

**Skin:** Wash exposed skin thoroughly with soap or mild detergent and water. If irritation persists or develops, seek medical attention.

**Inhalation:** Inhalation is not considered a likely route of exposure.

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## Section 5. Fire Fighting Measures

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**Fire & Explosion Hazards:** Severe fire hazard.

**Autoignition temperature:** 130oC minimum, determined on dry, aged membrane.

**Extinguishing Media:**

Small fire: Water, regular dry chemical, sand, earth, and regular foam.

Large fire: Large fires can be brought under control with a fine spray or fog pattern to prevent dispersing burning material. Once under control, use a straight stream to penetrate the smoldering mass and expose hot spots.

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## Section 6. Accidental Release Measures

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**Spills and Leaks:** Avoid heat, flames, sparks and other sources of ignition. Collect material into suitable, loosely covered container for disposal. Remove sources of ignition.

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## Section 7. Handling and Storage

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Keep away from sources of heat or ignition and separated from incompatible substances. Store and handle in accordance with all current regulations and standards.

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## Section 8. Exposure Controls/Personal Protective Equipment (PPE)

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**Ventilation:** General ventilation is adequate for most applications.

**Personal Protection:** Safety glasses with side shields are adequate for normal use of this product. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Wear appropriate chemical resistant, impervious gloves and protective clothing to prevent skin contact.

**Respirator Use:** Typically, respirator use is not required.

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## Section 9. Physical/Chemical Properties

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Physical State:	White solid
Specific Gravity (water = 1.0):	0.4 - 0.7

Odor:	Not available
Odor threshold:	Not available
Water solubility:	Insoluble
pH:	Not applicable
Melting Point:	Decomposes
Boiling Point:	Not available
Vapor Pressure:	Not available
Vapor Density:	Not available
Volatility:	Not applicable
Evaporation Rate:	Nil
Coefficient of water/oil distribution:	Not available

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## Section 10. Stability and Reactivity

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**Chemical Stability:** Stable at normal temperatures and pressure.

**Conditions to avoid:** Temperatures above 55 °C, flames, sparks, other sources of ignition and contact with incompatible materials.

**Hazardous Polymerization:** Will not occur.

**Incompatible with:** Oxidizing agents.

**Hazardous Decomposition Products:** Oxides of carbon and nitrogen.

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## Section 11. Toxicological Information

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**Carcinogenicity:** Not listed as carcinogenic by IARC, NTP, or OSHA.

**Acute Effects:** Possible skin, eye, and mucous membrane irritation.

### Toxicity Data

INGREDIENT	OSHA PEL	ACGIH TLV	NIOSH REL
Nitrocellulose	None listed	None listed	None listed
Cellulose Acetate	None listed	None listed	None listed

**Toxicological Data:** No toxicological data is available for this product as an entity.

### Selected RTECS data for components

Nitrocellulose: (100%)	RTECS#: QW0970000
LD50 ,oral, mouse	>5 g/kg
LD50 ,oral, rat	>5 g/kg
Cellulose Acetate: (100%)	RTECS#: Not Listed
LD50 , Oral, Rat	>3.2 gm/kg Data: Van Waters & Rogers

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## Section 12. Ecological Information

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### Ecotoxicity:

These materials are expected to have low toxicity in the environment due to their very limited solubility in water.

**Environmental Fate:**

Scientific literature indicates nitrocellulose and cellulose acetate will slowly biodegrade in contact with soils. Their decomposition in contact with natural waters is expected to be somewhat slower.

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**Section 13. Disposal Considerations**

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**European Union:**

Once used, this material should be considered according to the European Waste Catalogue 2002 (last amended by 2001/573/EC which modified directives 2000/532/EC, 94/904/CE and 75/442/EEC) as part of the following category: 16 03 05\* organic wastes containing dangerous substances.

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**Section 14. Transport Information**

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**Proper Shipping Name:** Nitrocellulose Membrane Filters

**UN Number:** UN3270

**Hazard Class:** 4.1

**Packing Group:** II

**Hazard Label:** FLAMMABLE SOLID

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**Section 15. Regulatory Information**

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**California:**

No significant Risk Level: None of the chemicals in this product are listed.

**Canada:**

This product has a WHMIS classification of B4, D2B and F.

**European Union:**

European Labeling in Accordance with EC Directives:

Hazard Symbols: F

Risk Phrases: R 11 Highly flammable

Safety Phrases:

S 16 Keep away from sources of ignition. No Smoking.

S 33 Take precautionary measures against static discharge.

**United States**

All components of these products are listed on the Toxic Substances Control Act (TSCA) Chemical Inventory or covered by the polymer exclusion. See 40 CFR 710 for details.

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**Section 16. Other Information**

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**Disclaimer**

For approved uses only. Not for drug, household, or other uses.

The above information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. SKC Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.