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# MATERIAL SAFETY DATA SHEET (MSDS)

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Nitrocellulose Lateral Flow  
Membrane

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Document No.: MSDS/1001

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## 1. Product & Company Identification

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**Product Name** : Nitrocellulose Membrane (Lateral Flow Membrane)

**Product Information** : Axiflow developing different types of lateral flow membranes with polyester backing suitable for different types of diagnostic kits. These membrane can be used for all kind of lateral flow testes like monitoring ovulation, detecting infectious disease organisms, analyzing drugs of abuse and measuring other analyst important to human physiology hCG, Cancer, Whole Blood test (HIV, Malaria) and also agricultural applications etc. using sandwich, competitive or inhibition assays.

**Product Code** :

Cat. No.	Micron Rating	Wicking Time
AXC090-BQ**	90 Sec	80 – 100 sec
AXC095-CHCG**	15 µm	80 – 110 sec
AXC100-CH**	15 µm	85 – 115 sec
AXC115-CG**	12 µm	100 – 130 sec
AXC130-DF**	10 µm	115 – 145 sec
AXC160-DE**	8 µm	135 – 195 sec
** Width of the Membrane Require		

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## 2. Material of Construction

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**Backing** : Transparent polyester film 100 µm

**Components** : White film of Nitrate cellulose, Dry

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## 3. Physical Properties

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Physical State	:	Solid
Color	:	White film on transparent polyester
Physical Form	:	Sheet/Reel
Odor	:	Odorless

## 4. Chemical Properties

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Water Solubility	:	Insoluble
pH	:	Not applicable
Melting Point	:	Not applicable
Protein Binding	:	30 - 55µg/cm <sup>2</sup>
Evaporation Rate	:	Not applicable
Volatility	:	Not applicable

## 5. Hazard Identification

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Major Health Hazards	:	No significant target effects reported.
Physical Hazards	:	Flammable solid. May cause eye & skin irritation.
Precautionary Measures	:	Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container closed. Wash thoroughly after handling.
Potential Health Effect	:	<b>Ingestion</b> - Although, Unlikely to be ingested. It may cause irritation of digestive system and kidney damage. <b>Skin Contact</b> - No known any allergic reaction reported. <b>Eye Contact</b> - Although, Unlikely to happened, It may cause irritation and burns in eyes.

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## 6. First Aid Measures

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<b>Eye Contact</b>	:	It is unlikely that emergency treatment will be required. Wash with large amounts of water or normal saline until no evidence of chemical remains. Get medical attention immediately if needed.
<b>Skin Contact</b>	:	No skin problem has been reported. If it occurs, wash skin with soap or mild detergent & large amounts of water. Seek medical attention immediately if needed.
<b>Inhalation</b>	:	No Inhalation hazard. Still if any irritation arises, move exposed person to fresh air. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical help immediately.
<b>Ingestion</b>	:	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## 7. Fire Fighting Measures

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<b>Flammability</b>	:	Flammable solid. Runoff to sewer may create fire or explosion hazard.
<b>Extinguishing media</b>	:	Dry chemical, sand, CO <sub>2</sub> , regular foam, water
<b>Specific Hazards</b>	:	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 equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

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## 8. Accidental Release Measures

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- Methods for Clean up** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Use spark proof tools or explosion-proof equipment.
- Personal Precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Shut off ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- Environmental Precautions** : Avoid dispersal of spilled material and run-off and contact with soil, waterways, drains and sewers.

## 9. Handling and Storage

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- Handling** : Keep the product in original packing. Avoid direct sunlight and organic solvents. Keep away from heat, sparks, flame and excessive humidity or moisture. Eating, drinking and smoking should be prohibited in areas where this material is handled, Stored and processed. Use explosion proof electrical equipment.
- Storage** : Store in a dry and well ventilated area place. Store below 30 °C. It is very good if the temperature is below 20 °C. Keep container slightly closed to prevent moisture absorption and contamination.

## 10. Exposure Control/Personal Protection

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- Ventilation** : Based on available information, additional ventilation is not required. General ventilation is adequate.

### Personal Protection Equipment

- Eye Protection** : Eye protection not required under normal conditions.
- Face Protection** : Face protection not required under normal conditions.
- Skin Protection** : Protective gloves not required under normal conditions.
- Respiratory Protection** : No respirator is required under normal conditions.

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## 11. Stability & Reactivity

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<b>Reactivity</b>	:	Stable at normal temperatures and pressure.
<b>Stability</b>	:	Stable at normal temperatures and pressure.
<b>Condition to avoid</b>	:	Avoid heat, flames, sparks and other sources of ignition.
<b>Incompatibilities</b>	:	Acids, alcohols, amine, bases, ketones, oxidizing materials
<b>Hazardous</b>	:	Thermal decomposition products or contact with acids:
<b>Decomposition</b>	:	Oxides of nitrogen and oxides of carbon.

## 12. Toxicological Information

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<b>Routes of Entry</b>	:	Inhalation, Ingestion
<b>Primary Effects</b>	:	Harmful if inhaled or ingested.
<b>On the skin</b>	:	Severely irritates skin and may result in severe pain.
<b>On the eye</b>	:	Causes eye irritation.
<b>Ingestion</b>	:	Harmful if swallowed. Swallowing may result in severe stomach pain.
<b>Inhalation</b>	:	May be harmful if inhaled. May cause irritation of the respiratory tract and mucous membranes.

## 13. Ecological Information

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<b>Aquatic Toxicity</b>	:	Toxicity is expected to be low based on insolubility in water.
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## 14. Disposal Considerations

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<b>Waste Disposal</b>	:	The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable product via a licensed waste disposable contractor.
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Incineration and landfill should only be considered when recycling

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material and its is not feasible. This container must be disposed of in a safe way. Cares should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 15. Transport Information

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**Transport Information** : These products are classified as “Flammable Solid” in the meaning of DOT Classification.

## 16. Regulatory Information

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**HCS Classification** : Flammable solid, target organs effects

**Protective Equipment** : Gloves, Lab Coat, Dust respirator. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

## 17. Other Information

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This Material Safety Data Sheet serves to complete but not to replace the technical product data sheets. The information and recommendations set forth above are taken from sources believed to be accurate as of the date hereof; however, Axiflow Biotech makes no warranty with respect to the accuracy of the information or the suitability of the recommendations and assumes no liability to any user thereof. The information contained in this sheet does not constitute a hazard assessment and should not be used in place of the user’s own assessment of workplace risks as required by other health and safety legislation. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned. The above information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. Axiflow Biotech shall not be held liable for any damage resulting from handling or from contact with the above product.

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Information given herein is offered in good faith as accurate and experience of supplier but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses.

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