



MATERIAL SAFETY DATA SHEET (MSDS)

Lateral Flow NC Membrane

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1. Product & Company Identification

Product Name : Lateral Flow NC Membrane

Product Information : Axiva 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
AXC 160	8 μm	135-195 sec
AXC 130	10 μm	115-145 sec
AXC 115	12 μm	100-130 sec
AXC 100	15 μm	85-115 sec
AXC 95	15 μm +	80-110 sec
AXC 90	15 μm +	80-100 sec

** Width of the Membrane Require

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2. Material of Construction

Backing Material : Polyester

Components : White film of Cellulose Nitrate, Dry

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3. Physical Properties

Physical State	:	Solid
Colour	:	White film on transparent polyester
Physical Form	:	Sheet/Reel
Odour	:	Odourless

4. Chemical Properties

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

5. Hazard Identification

Major Health Hazards	:	No significant target effects reported.
Physical Hazards	:	No significant physical hazard effects reported.
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	:	Inhalation: - Short term exposure: Non-volatile and so no inhalation hazard Long term exposure: No information is available Skin Contact - Short term exposure: No allergic reaction reported

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Long term exposure: Prolonged contact may cause skin irritation

Ingestion - Although, unlikely to be ingested. Ingestion may cause irritation of digestive tract, depression of the nervous system and kidney damage.

Eyes: Although, unlikely to happen, eye contact may cause irritation and burns.

Medical Conditions Aggravated by Exposure: No information available.

6. First Aid Measures

- Eye Contact** : 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.
- Skin Contact** : 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.
- Inhalation** : 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.
- Ingestion** : 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

- Flammability** : Flammable solid. Runoff to sewer may create fire or explosion hazard.

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- Extinguishing media** : Dry chemical, sand, CO₂, regular foam, water
- Specific 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 equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

8. Accidental Release Measures

- 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

- 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.

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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

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.

11. Stability & Reactivity

Reactivity : Stable at normal temperatures and pressure.

Stability : Stable at normal temperatures and pressure.

Condition to avoid : Avoid heat, flames, sparks and other sources of ignition.

Incompatibilities : Acids, alcohols, amine, bases, ketones, oxidizing materials

Hazardous : Thermal decomposition products or contact with acids:

Decomposition : Oxides of nitrogen and oxides of carbon.

12. Toxicological Information

Routes of Entry : Inhalation, Ingestion

Primary Effects : Harmful if inhaled or ingested.

On the skin : Severely irritates skin and may result in severe pain.

On the eye : Causes eye irritation.

Ingestion : Harmful if swallowed. Swallowing may result in severe stomach pain.

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Inhalation : May be harmful if inhaled. May cause irritation of the respiratory tract and mucous membranes.

13. Ecological Information

Aquatic Toxicity : Toxicity is expected to be low based on insolubility in water.

14. Disposal Considerations

Waste Disposal : 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.

Incineration and landfill should only be considered when recycling 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

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

16. Regulatory Information

HCS Classification : Flammable solid, target organs effects

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

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17. Other Information

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, Axiva Sichem 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. Axiva Sichem Biotech shall not be held liable for any damage resulting from handling or from contact with the above product.

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