



UltraScience Nitrocellulose Membrane Sandwiches

Document Type: Global Master SDS (International Use)

Revision Date: 2026-02-23

Version: 2.0

Supersedes: SDS dated 2024-07-31

1. Identification

Prepared in accordance with:

United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Intended use:

This Global Master SDS is intended for international hazard communication and may be supplemented by country- or region-specific addenda to meet local regulatory requirements.

Product Name: UltraScience Nitrocellulose Membrane Sandwiches

Catalog Number: MMN01-S020(N)/MMN02-S020(N)

Recommended Use: Laboratory research use only

Supplier: BIO-HELIX Co., Ltd.

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2. Hazard(s) Identification

Classification according to GHS: Flammable solids, Category 1

Signal word: Danger

Hazard pictogram: Flame



Hazard statements:

H228 – Flammable solid

Precautionary statements:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 – Ground/bond container and receiving equipment.

P241 – Use explosion-proof electrical/ventilating/lighting equipment.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.





3. Composition / Information on Ingredients

Ingredients:

Substance	CAS No.	Concentration
Cellulose nitrate (nitrogen $\leq 12.6\%$)	9004-70-0	>90% (w/w)

4. First-Aid Measures

Inhalation: Move person to fresh air. If symptoms persist, seek medical advice.

Skin contact: Wash with soap and water.

Eye contact: Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting. Seek medical attention.

5. Fire-Fighting Measures

Suitable extinguishing media: Water only.

Unsuitable extinguishing media: Dry powder, foam, carbon dioxide (CO₂).

Specific hazards: May emit nitrogen oxides upon combustion.

Protective equipment: Firefighters should wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions: Remove ignition sources. No smoking.

Environmental precautions: Prevent release into the environment.

Cleanup methods: Wet with water and collect mechanically.

7. Handling and Storage

Handling: Avoid heat, shock, friction, and static discharge.

Storage: Store at room temperature in original packaging. Keep away from combustible materials and oxidizers.

8. Exposure Controls / Personal Protection

Engineering controls: None required under normal laboratory use.

Personal protective equipment: Lab coat, gloves, safety glasses.

Respiratory protection: Not required under normal conditions.

9. Physical and Chemical Properties

Appearance: Solid membrane

Color: White with polyester backing

Odor: Odorless

Solubility: Insoluble in water



10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Heat, sparks, friction, static discharge.

Incompatible materials: Strong oxidizing agents, strong acids, strong bases.

Hazardous decomposition products: Nitrogen oxides.

11. Toxicological Information

Based on available data, no acute toxic effects are expected under normal laboratory use.

12. Ecological Information

No data available. The product is not expected to be acutely toxic to aquatic organisms.

13. Disposal Considerations

Dispose of contents and container in accordance with local, regional and national regulations.

14. Transport Information

UN number: UN3270

Proper shipping name: Nitrocellulose membrane filters

Transport hazard class: 4.1

Packing group: II

For MMN01-S020 (≤ 0.5 g per membrane):

When supplied as sealed articles, this product qualifies for IATA DGR Special Provision A122 and is not subject to the provisions of the Dangerous Goods Regulations.

For MMN02-S020 (> 0.5 g per membrane):

Shipped as UN3270, Class 4.1 in full compliance with IATA DGR.

15. Regulatory Information

This product is classified and labeled in accordance with the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

This Safety Data Sheet is intended to serve as a Global Master SDS. Compliance with specific regional or national regulations may require additional information or adaptations.





16. Other Information

Revision history:

Version 2.0 – Updated transport information to include IATA Special Provision A122 clarification.

Disclaimer:

The information provided in this Safety Data Sheet is believed to be accurate and represents the best information currently available to BIO-HELIX Co., Ltd. at the time of issue. It is intended solely as guidance for safe handling, use, processing, storage, transportation, disposal and release of the product. It does not constitute a warranty, express or implied.

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