PRODUCT SAFETY DATA SHEET (SDS)

In accordance with Regulation (EU) 2020/878

1. Product and Company Identification

• Product Name: NM-POL Polymer Nanomembrane

• Application: Industrial liquid filtration, molecular separation.

• Manufacturer: NANOMILITARY

• Website: www.nanomilitary.eu

2. Hazards Identification

• Classification: The product is not classified as hazardous to human health or the environment within the meaning of the CLP Regulation.

• Physical Hazards: None. Product in solid form (flat sheet or rolled membrane).

• Nano-specifics: Polymer nanocomposites are permanently bound within the solid matrix. No emission of free nanoparticles occurs during normal use.

3. Composition and Information on Ingredients

Product - polymer nanocomposite.

*Components are integrated into the matrix; no respiratory exposure occurs.

4. First Aid Measures

• Eye/Skin Contact: The product in solid form is inert. In case of mechanical irritation (e.g., from edges), rinse with water.

• Inhalation: Not applicable (non-dusting product).

5. Firefighting Measures

• Extinguishing Media: Water spray, fire-fighting foam, ABC powder.

• Combustion Products: During a fire, carbon oxides and nitrogen oxides (COx, NOx) may be released.

6. Accidental Release Measures

• Cleanup Methods: Collect mechanically. The product does not leak or evaporate.

7. Handling and Storage

• Storage: Store in a dry place, away from heat sources and strong oxidizers.

• Transport: Not subject to ADR/RID regulations (safe product).

8. Exposure Controls and Personal Protection

• Respiratory Protection: Not required under normal operating conditions.

• Hand Protection: Protective gloves are recommended when handling large sheets (protection against cuts from sharp edges).

9. Physical and Chemical Properties

• Physical State: Solid (thin-film membrane).

• Odor: Odorless.

• Solubility: Insoluble in water and most organic solvents.

10. Stability and Reactivity

• Stability: Product is stable within the recommended pH range (2 - 11).

• Reactions: Avoid contact with strong oxidizing acids (e.g., concentrated nitric acid).

11. Toxicological Information

• Acute Toxicity: No data indicating toxicity of the product in solid form.

• Carcinogenicity: Ingredients are not listed as carcinogens by IARC.

12. Ecological Information

• Ecotoxicity: The product exhibits high biological stability. It is not readily biodegradable. No leaching of nanocomponents into the aquatic environment has been detected.

13. Disposal Considerations

• Dispose of in accordance with local regulations regarding plastics (Waste Code: 15 02 03 – absorbents, filter materials).