

BOLSTER UP CHEMICAL SOLUTION COMPANY

NF MICRO-PEL (004)(Cylinder Lubricant)

- > **Extends diamond shoe Life, Saving time and money.**
- > **The unique dry coating prevents debris from collecting on the engraving stylus, shoe and burr cutter.**
- > **Anon-flammable formula for safer use and storage,**
- > **A soil retarding and water repellent finish.**
- > **Prevents score marks by allowing the shoe to glide smoothly across the cylinder.**
- > **Easy to apply and maintain an even coating.**

> Cylinder Application of NF Micro-PEt

- 1. Clean the cylinder surface.**
- 2. Apply a very thin, even layer of NF Micro-PEL lubricant to the rotating cylinder using a paper towel or cloth. Avoid heavy streaks during the application.**
- 3. Wipe off any excess lubricant with a clean, dry paper towel or cloth.**
- 4. Wipe the cylinder several additional times to ensure any excess lubricant has been removed. This also buffs the cylinder to a smooth finish, ready for engraving.**

Care of NF Micro-PEL

Keep from freezing. Product stored in cold or freezing temperatures may separate or thicken. This will not harm the

performance of NF Micro-PEL. Before using, warm to room temperature and mix thoroughly.

NF Means Non-Flammable. Please note the NF Micro-PEL is sold in two different formulas.

NF Micro-PEL fs the SAFE, NON FLAMMABLE FORMULA for use as a Gravure Cylinder lubricant.

MSDS (Material Safety Data Sheet)& TDS

Section 1: Identification - Product name (NF MICROPEL Cylinder Lubricant), manufacture by Bolster up chemical solution company, varanasi

Section 2: Hazard(s) Identification - GHS classification, warning labels, and potential health hazards (e.g., eye irritation or skin allergies).

Section 3: Composition/Information on Ingredients - Components of the highly refined mineral base oils and chemical additives.

Section 4: First-Aid Measures - Clear protocols for accidental eye contact, skin exposure, inhalation, or ingestion (e.g., do not induce vomiting if swallowed).

Section 5: Fire-Fighting Measures - Suitable extinguishing media (CO₂, dry chemical, foam) and hazards when the oil burns.

Section 6: Accidental Release Measures - Spill clean-up procedures, containment methods, and personal precautions to avoid slipping.

Section 7: Handling and Storage - Safe storage temperatures, ventilation requirements, and avoiding ignition sources.

Section 8: Exposure Controls/Personal Protection - Mandatory PPE requirements like Nitrile gloves, safety goggles, and protective footwear.

Section 9: Physical and Chemical Properties - Key technical values like Flash Point (typically >220°C), Kinematic Viscosity at 100°C (usually around 16.3 to 24 cSt), Pour Point, and Density.

Section 10: Stability and Reactivity - Chemical stability data and materials to avoid (like strong oxidizing agents).

Section 11: Toxicological Information - Health effects of acute or chronic exposure. It highlights that used cylinder oil can contain harmful combustion products.

Section 12: Ecological Information - Assessment of the oil's environmental impact, ecotoxicity, and biodegradability in water bodies.

Section 13: Disposal Considerations - Guidelines for recycling or disposing of waste oil and contaminated packaging according to MARPOL and local regulations.

Section 14: Transport Information - Shipping classifications for road, sea (IMDG code), and air transport.

Section 15: Regulatory Information - Safety, health, and environmental regulations specific to the product (e.g., REACH, OSHA, TSCA).

Section 16: Other Information - Date of the latest revision, abbreviations, and disclaimer.

Key Safety Highlights Specific to Cylinder Oils

High Flash Point: Cylinder lubricants have high flash points to withstand engine heat, but they can still burn if sprayed onto hot exhaust manifolds (creating a fire hazard).

Used Oil Hazards: Continuous skin contact with used marine cylinder oil must be avoided as it contains heavy metals and acidic combustion residues that can cause severe skin disorders.



Thanks & Regards

Bolster up Chemical solution Company

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