

## MATERIAL SAFETY DATA SHEET

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**Panef Item:** K-81  
**Description:** Penetrating Graphite Oil  
**Date:** July 1, 2003

### SECTION I — PRODUCT IDENTIFICATION

Product Name: Panef Penetrating Graphite Oil K-81  
Generic Name: Penetrating Oil  
Chemical Family: Graphite/Petroleum Hydrocarbons  
CAS#: Not Applicable - Mixture

### SECTION II — HAZARDOUS INGREDIENT IDENTITY INFORMATION

<u>Ingredient</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGH TLV</u>	<u>APPROX. PERCENT</u>
Mineral Spirits	8002-05-9		100ppm	90-95
Graphite	7782-42-5	2.5mg/M <sub>3</sub>		5-10

### SECTION III — PHYSICAL DATA

Boiling Point (760mm Hg): 320...F  
Vapor Density (Air=1): 4.7  
Evaporation Rate (Butyl Acetate=1): 0.22  
Solubility in Water: Negligible  
Appearance and Odor: Black thin liquid, Solvent like odor.

Specific Gravity (Water=1): 0.78  
Vapor Pressure (mm Hg@25...C): 2.0  
% Volatile (Vol %): 90  
Wt/gal (lbs): 6.50

### SECTION IV — FIRE AND EXPLOSION DATA

Flash Point (Method Used): 102...F TCC  
Flammable Limits (% by Vol.) LEL: 1.1 UEL: 6.0  
Fire Extinguishing Media: Foam X CO2 X Dry Chemical X Water Fog X Other X  
Special Fire Fighting Procedures: NONE  
Unusual Fire and Explosion Hazards: A vapor accumulation could flash at 102...F.  
Hazardous Products Formed by Fire or Thermal Decomposition: Smoke, carbon monoxide and/or carbon dioxide.

### SECTION VI — REACTIVITY AND STABILITY DATA

Product is: Stable X Unstable \_\_\_  
Conditions to Avoid:  
Incompatibility (Materials to avoid): Strong oxidizing agents  
Hazardous Polymerization: Will Not Occur X May Occur \_\_\_

**SECTION VII — HEALTH HAZARD DATA**

Route of Entry: Inhalation X Skin X Eyes X Ingestion \_\_\_

Health Hazard:

Acute: May cause eye irritation.

Chronic: Skin dryness and irritation.

Symptoms of Exposure: Prolonged exposure might affect the central nervous system, and cause respiratory irritation.

**EMERGENCY AND FIRST AID PROCEDURES**

Eyes: Flush eyes with water for 10 minutes. If redness persists get medical attention.

Inhalation: Provide fresh air and rest.

Ingestion: Do not induce vomiting; call a physician.

Skin: Wash with soap and water.

Carcinogen: No X Yes \_\_\_

**SECTION VIII — PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps to be taken in case material is released or spilled: Recover free product. Use absorbent on spill areas. Keep product out of sewers and waterways. Avoid skin contact.

Waste disposal methods: Incinerate or bury according to local, state and federal laws.

Precautions to used in handling and storage: Keep containers closed and away from open flames.

**SECTION IX — PERSONAL PROTECTION/RESPIRATORY PROTECTION**

Ventilation — Local: General shop ventilation usually adequate.

Mechanical: If needed to control fumes, mist or spray.

Respiratory Protection: None required in normal use.

Protective Gloves: Neoprene or nitrile gloves recommended.

Eye Protection: Safety glasses or goggles recommended when eye contact may occur.

Other Protection: Not generally required with this product.

Hygienic Practices: Wash hands with soap and water after handling product. Remove contaminated clothing and launder before reuse.

Special Precautions: Keep containers closed when not in use. Do not handle or store near excess heat, sparks or open flame. Keep out of reach of children. Do not ingest.

**SECTION X — REGULATORY INFORMATION**

SARA Title III f302, 304, 311 & 312 - Components in this product at a level which could require reporting under this statute are: NONE

SARA Title III f313 — Components present in this product which may require reporting under this statute are: NONE

The data given in this Material Safety Data Sheet is based on information which is considered to be accurate and current at the time of issue. However, no warranty, expressed or implied, is given regarding the accuracy of these data or the results to be obtained from their use.

Replaces all previous editions.

Prepared by: HRE

Emergency Phone Number 1-800-448-1247.