MOLYPET  
MoS2 AEROSOL  

Product Description  

MOLYPET Moly Spray is a high performance parts in aerosol form that is particularly effective as a running-in lubricant compound with molybdenum disulphide (MoS2) and other solid lubricants in a special Grade mineral oil, this product features an unusually low coefficient of friction immediately upon application without burnishing. Because of its unique formulation in aerosol form, this lubricant can be supplied in thin controlled films on surfaces even when brushing or burnishing is impossible.

RECOMMENDED USAGE:  
MOLYPET is one of the best lubricants available for running in applications. It is particularly useful for surfaces that cannot be burnished and when the lowest possible coefficient of friction is desired.

PROVEN BENEFITS:  
• It is especially suitable as a Spray in lubricants  
• Does not require burnishing  
• Provides a lower coefficient of friction than most other MoS2 pastes  
• Features a solvent that quickly evaporates and allows the sprayed part to be used within a seconds  
• Has a service temperature range of -31° C.(-35 °C) to 750F (399 °C)  
• Require no special surfaces preparation and film thickness is easily controlled specially useful for precision equipment’s.  
• Reduces friction, prevents metal contact, galling, seizing and protects against wear, especially during initial running-in and under severe operating conditions.

Typical Properties  

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>TEST METHOD</th>
<th>TYPICAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Coefficient of friction</td>
<td></td>
<td>0.055</td>
</tr>
<tr>
<td>Oscillating LFW-1 Wear Scar, mm</td>
<td></td>
<td>0.52</td>
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<tr>
<td>Corrosion resistance, after 7 days at 100% R.H. on QD-38 mild steel</td>
<td></td>
<td>No rust</td>
</tr>
<tr>
<td>Effects on Copper strip, after 2 hrs./212 °F(100 °C)</td>
<td>ASTM D 130</td>
<td>No carnish</td>
</tr>
<tr>
<td>Specific gravity at deg.77 F (25 °C)</td>
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<td>1.7</td>
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</tbody>
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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY UNDERTAKING
   Product Name: MOLYPET MOLY SPRAY

2. COMPOSITION / INFORMATION ON INGREDIENTS
   Molybdenum Disulphide Acetone Propane Butane Light Liquid Paraffin

3. HAZARDS IDENTIFICATION
   Flammability: Yes  LEL: 1.2%
   TDG Flammability: 3  UEL: 7.5%
   Flash Point°C -21.7 (OC)
   Auto ignition Temperature °C 225
   Explosion sensitivity: Stable
   Explosion sensitivity to static Electricity: Explodes
   Hazardous combustion products: Emits acrid smoke & fumes
   Hazardous poly: Will not occur
   Combustible liquid: YES
   Explosive material: NO
   Corrosive material: NO
   Flammable Material: YES
   Oxidizer: NO
   Others: NA
   Pyrophoric Material: NO
   Organic Peroxide: No

4. FIRST – AID MEASURES
   Eyes: Wash with plenty of water for 15 mins.
   Skin: Remove the contaminated clothes & wash the affected area with plenty of water and soap.
   Inhalation: Maintain respiration, provide oxygen if required. Do not induce vomiting.
   Ingestion: Seek medical aid immediately.

5. FIRE FIGHTING MEASURES
   Fire Extinguishing: CO2, Dry Chemical Powder, Foam. Do not use water jet. Special procedure Keep the containers cool by spraying water if exposed to heat or flame
   Unusual Hazard: Flash back along vapour trail may occur

6. ACCIDENTAL RELEASE MEASURES
   Steps to be taken: Shut off leaks if without risk. Absorb on sand or earth. Wash the surface with water & soap. Wastage Disposal Method: Spray in to a furnace. Incineration will become easier by mixing more flammable solvent.

7. HANDLING AND STORAGE
   HANDLING:
   Use with adequate ventilation.
   STORAGE: Store away from heat.

8. EXPOSURE CONTROL / PERSONAL PROTECTION
   PERSONAL PROTECTIVE EQUIPMENT
   EYES AND FACE:
   For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.
   SKIN: The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Viton, Solvex, Butyl, Buna, Neoprene.
   RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator’s use.
   WORK HYGIENIC PRACTICES: Avoid contact with eyes. Avoid fume inhalation. Limit skin contact.
   OTHER USE PRECAUTIONS: Emergency shower and eyewash facility should be in close proximity

9. PHYSICAL AND CHEMICAL PROPERTIES
   Colour: Dark Grey
   Coefficient of friction: 0.23 (Static)
   Flash point: None
Layer Thickness 7-15 micron  
Temp.Range -74°C to 400 °C  
Binder Inorganic i.e. (Not Sodium Silicate)  

10. STABILITY AND REACTIVITY  

STABILITY: Stable. POLYMERIZATION: Will not occur.  
CONDITIONS TO AVOID: Stable. However, may decompose if heated.  
HAZARDOUS DECOMPOSITION PRODUCTS: None known  
INCOMPATIBLE MATERIALS: Oxidizing agents, alkalies and bases.  

11. TOXICOLOGY INFORMATION  

EYES: Moderately to severely irritating  
DERMAL LD50: Mildly to moderately irritating.  
ORAL LD50: Slight to very low irritating.  
INHALATION LC50: Slight to very low irritating.  

12. ECOLOGICAL INFORMATION  

ENVIRONMENTAL DATA: There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.  

13. DISPOSAL CONSIDERATIONS FOR LARGE SPILLS:  

Contaminated sawdust, vermiculite, or porous surfaces must be disposed of in a permitted hazardous waste management facility. Recovered liquids may be reprocessed or incinerated or must be treated in a permitted hazardous waste management facility.  
GENERAL COMMENTS: Dispose of in a manner consistent with federal, state, and local regulations.  

14. TRANSPORT INFORMATION  

DOT (DEPARTMENT OF TRANSPORTATION) PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D PRIMARY HAZARD CLASS/DIVISION: No classification UN/NA NUMBER: N/A PACKING GROUP: N/A AIR (ICAO/IATA) SHIPPING NAME: CONSUMER COMMODITY ID8000 UN/NA NUMBER: ID8000 PRIMARY HAZARD CLASS/DIVISION: 9 PACKING GROUP: N/A VESSEL (IMO/IMDG) SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2 UN/NA NUMBER: 1950 PRIMARY HAZARD CLASS/DIVISION: 2.2 PACKING GROUP: N/A 15. REGULATORY INFORMATION UNITED STATES SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) TITLE III NOTES: Not listed as an Extremely Hazardous Substance.  
16. OTHER INFORMATION MANUFACTURER DISCLAIMER:  

To the best of our knowledge, the information contained herein is accurate. However, neither Petrelplus or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.  
Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.  
*All related specifications are meets or exceeds.