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## #308 MOLY DRI-PLATE BULK

Moly Dri-Plate Bulk is a colloidal dispersion of molybdenum disulfide in a non-chlorinated solvent. Moly Dri-Plate Bulk is designed for applications where an extreme pressure, high temperature dry lubricant is desirable. Moly Dri-Plate Bulk offers excellent extreme pressure lubrication in a resin bonded system that dries within minutes of application. The product is easily applied by the use of spray, brush or dip methods to all substrates that are not affected by the solvent system component of the product.

### **Benefits and Features:**

Once dispersed onto the metal's surface the molybdenum disulfide plates itself to the metal surface to form a long lasting solid lubricant film. This solid lubricant film will withstand pressures up to 500,000 pounds per square inch, thus providing the metal surfaces the protection needed during periods of high shock loads and extreme pressure.

This solid lubricant film also helps reduce friction resulting in reduced wear, reduced contact area temperatures, and prevention of galling, seizing and fretting of the rubbing metal surfaces which results in increased equipment life and less downtime.

The typical film thickness for the molybdenum disulfide film ranges from 5 to 12 microns (0.2 to 0.5 mil).

**Moly Dri-Plate Bulk contains no chlorinated solvents or ozone depleters.**

### **Typical Applications**

Moly Dri-Plate Bulk is recommended as an extreme pressure and high temperature lubricant for the following applications:

- Engine components for assembly and break-in requirements
- Mating surfaces of assemblies and machinery components
- Mechanisms, tumbler locks
- Relays and switches
- Plug and threaded gauges
- Oven, furnace and kiln chains
- Punches
- Machine tool ways and guides
- Threaded connections
- Conveyor chains
- Assembly and press fitting
- Drills, taps and dies

### **Surface Preparation**

The surface of the metal to which the Moly Dri-Plate Bulk is applied to should be clean and dry. A solvent wipe followed by an air dry is sufficient for smooth surfaces. For porous surfaces, use the same procedure followed by heating to drive off any entrapped contaminants, solvent and moisture.

### **Drying**

The coating of molybdenum disulfide dries within minutes. When the product is applied in high humidity conditions, the coating may become mottled in color; however it does not affect the performance.

## Compatibility

Moly Dri-Plate Bulk is compatible with all types of ferrous and non-ferrous metals. The solvent system used in the Moly-Dri Plate Bulk is not compatible with the following materials:

- Cast polyurethane and millable polyurethane
- ABS plastic
- Fluorocarbon (FKM)
- Epichlorohydrin
- Buna N (Nitrile)
- Fluorosilicone
- Silicone
- Natural Rubber
- Hydrogenated Nitrile
- Varmac
- Hyplanor
- Polycarbonate
- Polypropylene
- Epoxy

## Storage and Handling

The shelf life for Moly-Dri Plate Bulk is 2 years from the date of manufacturer in its original container. Do not store near heat, spark, flame or strong oxidizers. Store the product in a cool dry, well ventilated place. Protect the product from direct sunlight. Keep containers closed when not in use. Properly bond and ground all product containers and transferring equipment when transferring this product into different containers. Store as a flammable liquid, Store in accordance with National Fire Protection Association recommendations or applicable National, Provincial and local laws and regulations.

Avoid breathing vapors or mists. Use with adequate ventilation. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow product. Do not eat, drink or smoke in work areas.

Product container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid and/or vapor) and can be dangerous. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity or other sources of ignition. There may explode and cause injury or death. Empty containers should be completely drained, properly closed and promptly returned to a drum reconditioner or disposed of properly.

## TYPICAL PROPERTIES

Specific Gravity	0.868
Coefficient of Friction	0.23 static
Flash Point °F/°C	32°/0°
Service Temperature Continuous °F/°C	390°/200°
VOC Content	457 g/l