



TECHNICAL INFORMATION SHEET

XC020 Dry Lubricant Rinse

A Clean, Nonmigrating, Micro Dispersion Lubricant

Introduction

XC020 Dry Lubricant Rinse is one blend of a unique family of Polytetrafluoroethylene (PTFE) microdispersion lubricants available from Micro Care. This lubricant is applied using a volatile carrier fluid that deposits a thin, uniform, dry film of PTFE lubricant over almost any hard surface. Micro Care custom formulates each blend to insure the product is optimized to specific requirements. This enables ultra-low "break-away" forces and minimizes "stiction" problems common in low speed, light load applications.

Properties

The XC020 Dry Lubricant Rinse is one of many Micro Care fluid dispersions that offer many important money saving benefits:

- * Outstanding lubricity
- * Extraordinary microdispersion stability with minimal agitation
- * Easy nonflammable handling in storage and in use
- * Simple equipment requirements for part treatment
- * A sterile fluid inimicable to biologic growth
- * A non migrating lubricant deposition
- * Excellent materials compatibility

Micro Care provides a wide selection of carrier fluid options and lubricant concentrations to custom-tailor lubricant performance to your specific application. Our in-house packaging capabilities includes aerosol dispensers and all sizes of non-pressurized containers from a few ounces up to 55 gallon drums. Call Micro Care for details on how we can help you with your application and packaging requirements.

Physical and Chemical Properties

Odor:	Slight Ethereal
Boiling Point (carrier fluid):	54° C / 129° F calculated
Solubility in Water:	not soluble
% Volatile by Weight:	98
% Solids by Weight:	02
Telomer Particle Size:	
Average Bulk	1-15 (microns)
Mean	3.7 (microns)
Vapor Density (air=1):	4
Carrier Evaporation Rate (Ether = 1):	>1
Vapor Pressure, mm Hg:	226 @ 25° C estimated
Freezing Point, °C (°F):	-35 (-31)
Flash Point:	
Closed Cup (ASTM D 93):	None
Open Cup (ASTM D 1310-86):	None

Environmental Legislation

This formula is accepted by the U.S. Environmental Protection Agency (EPA) under the Significant New Alternatives Policy (SNAP) program as a substitute for ozone depleting substances. It has an Ozone Depletion Potential (ODP) of zero. Also none of its ingredients are classified as a Volatile Organic Compound (VOC)

None of the ingredients in this formula are classified as Hazardous Air Pollutants (HAP) and thus not subject to NESAHF regulation. It is also not included in SARA Title III Section 313 list of toxic chemicals, and is not subject to SARA Title III (EPCRA) reporting requirements.

Application Methods

Micro Care microdispersions are sold ready to use with the concentration of PTFE solids optimized for most end uses (1% - 2% solids ranging up to 15% for specialized applications). Normal precautions (safety glasses, etc.) should be used when moving, opening and using drums and pails of these materials.

All surfaces should be clean and dry prior to application of the lubricant. In many instances, the most cost effective dipping process uses a standard vapor degreaser system. The heating system can be used to put the solution into a "rolling boil" to insure the particles remain in suspension without settling. A single dip is adequate for most applications. Contact Micro Care for machine details and manufacturers.

Other application methods include wiping, brushing or aerosol sprays.

Heat Treatment

Coated parts can be heat-fused if greater coating durability is desired. Heat treatment enhances the durability of the lubricant coating by melting the PTFE onto the substrate. The process is simple, and involves heating the part surface to 305-316° C (581-600° F). Measure the surface temperature directly with a thermocouple. The coating appearance may change from opaque white to a darker translucent surface and finally appear clear and wet. Maintain the surface temperature of the coated part (not the temperature of the ambient air) at recommended temperatures for 5 - 10 minutes. If a white residue remains, buff with a soft cloth after cooling. No further treatment is required.

Ordering Information

# MCC-XC020D	500# (55 gallon) Drum
# MCC-XC020P	50# (5 gallon) Pail
# MCC-XC020P	10# (1 gallon) Pail

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