



Food-Grade Mold Release



- **High-Purity Food-Grade Silicone Mold Release Agent**
- **Solventless Formulation for Maximum Plastic Compatibility**
- **Unique Nozzle for Smooth, Consistent Coatings**
- **Slightly Slower-Drying to Maximize Economy**
- **Low Viscosity for Excellent Detail**

General Information

The MRF Food-Grade Mold Release from MicroCare delivers smooth, consistent coating which enhances the molding process. It offers an excellent compromise in through-put and economical operation, while balancing environmental, economic and safety concerns.

About the Product

The MRF Food-Grade Mold Release is a solventless formulation engineered for use on all plastics. The release has a low viscosity, so the lubricating film enhances the molding of even the finest details. The product lays out moderately quickly, striking a good balance between lower costs and faster cycle times. It will not affect plastics as other mold releases, which use aggressive solvents, have often done.

The MRF Release is a nonpaintable silicone-based release agent. Plastic-compatibility is excellent for this formulation, and it is safe for use on most thermosets such as ABS and silicones, as well as thermoform resins, polyethylene, polycarbonates, polystyrenes, polypropylene, polyurethanes, as well as acetyls, melamines, methacrylates, nylons, and natural and synthetic rubbers. It is most often selected for use during injection molding processes, but also is used during stamping, vacuum-forming, RIM, compression, extrusion, casting and lay-up operations.

Uniquely, this formulation uses a constant-pressure propellant blend, which — when coupled with the unique canister nozzle — dispenses a finely-atomized mist onto the mold surface. This creates a thin layer of release agent which allows for increased productivity and faster shot cycle times.

Technical Details

Chemical Family	Silicone Based
Appearance	Clear, Colorless Liquid
Aroma	Slight, Ethereal
Certification	Food-Grade Silicone, per 21CFR175.300
Viscosity (cSt)	~350
Evaporation	>1 (Ether = 1)

Health, Safety & Environmental Data

Safety Rating	Nonflammable, per ASTM methods for aerosols
NFPA	Health: 1; Fire: 2; Reactivity: 1
Ozone Impact	Zero

This product has been tested on a wide variety of substrates. No major incompatibilities were observed. Test before prolonged use.

Packaging

Aerosol	12 oz. / 340 g	MCC-MRF01
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Packaged in cases of twelve (12) cans per box. Shelf life is unlimited. MSDS sheets are available from MicroCare or on the web.

Related Products

For applications requiring paintable mold release agents, MicroCare recommends the **MRM Mold Release** which features a non-silicone chemical base.

Other featured products include an all-purpose mold release and a medical-grade mold release, as well as a dry-film lubricant and mold release, **VDX Dry Lubricant Spray**.

For cleaning molds, MicroCare recommends an exceptional light degreaser and silicone cleaner, **VeriClean™**, which speeds the removal of silicone deposits without toxic or environmentally hazardous compounds. Other products include the **TidyPen®** to remove labels, tapes and adhesives, **Precision Optical Cleaner** for cleaning lenses and photonic devices, and lint-free wipes for almost every cleaning environment.

Product Notes

AVAILABILITY. This product is available from MicroCare distributors world-wide. Find your local distributor at www.MicroCare.com.

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MicroCare Corporation

595 John Downey Drive, New Britain, CT 06051 USA
 Tel: 860.827.0626 Fax: 860.827.8105
 In North America, Dial: 800.638.0125
 Email: TechSupport@MicroCare.com
 On the Web: www.MicroCare.com

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