

# All-Purpose Mold Release



- **High-Purity General-Purpose Silicone Mold Release Agent**
- **Fast-Drying for Quick Cycles**
- **Delivers Exceptionally Smooth, Even Coatings**
- **Solventless Formulation for Maximum Plastic Compatibility**

### General Information

The MRA All-Purpose Mold Release from MicroCare is engineered to deliver smooth, even and consistent coatings during the molding process. It provides maximum in through-put and productivity while balancing environmental, economic and safety concerns.

### Technical Details

Chemical Family	Silicone Based
Appearance	Clear, Colorless Liquid
Aroma	Slight, Ethereal
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-MRA01
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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

MicroCare also offers food-grade and medical-grade mold release agents, as well as a dry-film lubricant and mold release, **VDX Dry Lubricant Spray**.

For cleaning molds, MicroCare recommends **VeriClean™**, an exceptional light degreaser and silicone cleaner which speeds the removal of silicone deposits.

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 every sort of cleaning task.

### Product Notes

**AVAILABILITY.** This product is available from MicroCare distributors world-wide. Find your local distributor at [www.MicroCare.com](http://www.MicroCare.com). Contact your local distributor for details on shipping.

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### About the Product

The MRA All-Purpose Mold Release is a versatile, cost-effective solventless formulation engineered for use on solvent-sensitive plastics. The release has a very low viscosity, so the lubricating film enhances the molding of even the finest details. The product lays up quickly, which reduces cycle times by eliminating lost time waiting for solvent carriers to evaporate. It will not affect plastics.

MRA is a nonpaintable silicone-based release agent. Engineered for typical injection molding processes, it also is suitable for stamping, vacuum-forming, RIM, compression, extrusion, casting and lay-up operations. Plastic-compatibility is a strength for this formulation, and it is ideal for use with ABS, resins, acetyls, melamines, methacrylates, nylon, polyethylene, polycarbonate, polystyrene, polypropylene, polyurethane, and natural and synthetic rubber.

MicroCare specializes in performance-enhancing packaging and this aerosol benefits from this expertise. The canister nozzle is engineered to dispense a finely-atomized, even mist onto the mold surface. This creates a thin barrier of siliconized release agent which allows increases in productivity and profits with faster shot cycle times and fewer rejects.

## 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](mailto:TechSupport@MicroCare.com)  
 On the Web: [www.MicroCare.com](http://www.MicroCare.com)

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 ISO 9001:2000  
 Registered

# MicroCare



# 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

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 In North America, Dial: 800.638.0125  
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 On the Web: [www.MicroCare.com](http://www.MicroCare.com)

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# MicroCare



# Medical-Grade Mold Release



The MRM Mold Release is a silicone-free formulation for fast, precise shots with minimum build-up on the tooling

- Non-Silicone Formulation
- Paintable
- High-Purity Medical-Grade Ingredients
- Fast-Drying for Quick Cycles
- Exceptionally Smooth Coatings
- Solventless Formulation for Maximum Plastic Compatibility

### General Information

The MRM Medical-Grade Mold Release delivers smooth, even coatings for maximum throughput from the molding process. It is a safe, economical and reliable coating which minimizes build-up on the molds. It also is an excellent choice because it helps balance complex process, safety and environmental trade-offs.

### About the Product

The MRM aerosol is a solventless refined hydrocarbon-based mold release made with crystal clear white mineral oils. It

specifically has been engineered as a release for molding applications that produce packaging and plastics for medical products. The thin, highly viscous lubricating film enhances the shaping of fine details. The product lays out very quickly, which speeds shot cycles and will not affect plastics as other mold releases, some of which use aggressive solvents, have often done.

The MRM material is a paintable release agent selected when secondary processes involve inks, paints, adhesives or colors. While recommended for injection molding, it also is suitable for stamping, vacuum-forming, RIM, compression, extrusion, casting and lay-up operations. Plastic-compatibility is excellent. It is compatible with most thermoform and thermoset materials such as plastics, resins, acetyls, melamines, methacrylates, nylons, PE, polycarbonate, polypropylene, polystyrene, polyurethane, silicone, and natural and synthetic rubbers.

The canister nozzle is engineered to dispense a finely-atomized, even mist. This thin barrier of release agent increases productivity with faster mold cycle times and fewer rejects.

### Technical Details

Chemical Family	Mineral Oil Based
Appearance	Clear, Colorless Liquid
Aroma	Slight, Ethereal
Certification	Medical-Grade Mineral Oil Hydrocarbon, per 21CFR172.878 and 21CFR172.880
Evaporation	>1 (Ether = 1)
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-MRM01

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

MicroCare also offers an all-purpose mold release and a food-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.

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