



BIOPHARMA & BIOTECH

Excellence in cleaning since 1984



# Multi-Surface Cleaning

Surface disinfection is a primary focus in mopping production and aseptic areas. Micronova offers mops in a range of fabrics and styles that will effectively remove surface particles and residues while distributing sufficient disinfectant to achieve contact times.

#### High Absorbency, Low Particulating, Economical Mops



**SlideMop<sup>™</sup>** Flat Head Mop Frame and Cover is a simple mop system featuring sturdy, collapsible plates that easily slide into the SlideMop<sup>™</sup> quilted polyester cover.

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rom drug discovery to final filling and packaging, Micronova's products are designed to foster the cleanliness of the research and production space. Cleaning tools developed to remove bioburden and particles are supported by Micronova's specialized cleanroom tapes, liners, and detergents and rigorous manufacturing standards.

SnapMop<sup>™</sup> Covers are a lightweight, snap-on mop cover with urethane foam interior, designed for effective cleaning and sanitizing. Shown with the highly absorbent microfiber cleaning pad. Snaps help to secure use with the LyoTool<sup>™</sup> and Tank Tool<sup>™</sup>.



NovaSnap<sup>™</sup> Mop with snap on and release clip action produces a simple low touch lightweight system for everyday mopping in clean production and lab spaces. Ideal for smaller spaces.

Polyester, and tufted polyester/polyamide microfiber, string style mops are low linting yet absorbent to address the needs of pharmaceutical production, lab and warehouse spaces. Use to lay down disinfectant or clean to a dry finish.





J-Zone<sup>™</sup> MegaSorb<sup>™</sup> Absorbent, tufted microfiber tubular looped mop for fine dry, damp or wet mopping.



#### MicroDenier NovaKnit<sup>™</sup> Mop

Finely ribbed microdenier tubular knit mop. Excellent absorbency with low linting properties. Launderable, Re-usable.



Arcrone

# Small Spaces

Specialty tools meet the challenges of cleaning restricted spaces, such as isolators, bio safety cabinets and pass through chambers.

Specialty cleaning tools meet the challenges presented in restricted and critical spaces. The tools are light weight and ergonomically designed for cleaning in, around and under equipment. All of these tools can be used routinely to remove photo resist and process residues.



**Isolator Tool<sup>™</sup>** designed for isolators and containment hoods with a swivel, allows for easier cleaning in small spaces, The choice of handles supports cleaning in larger isolators and pass throughs.



The **PolyMitt™** cleaning Mitt Wipes present the versatility of a premium wipe in a convenient mitt format. Cleaning shelves, carts, tanks, furniture and equipment is made simpler with this generous "one size fits all" option.

**FlatMop™** Covers with SlimLine<sup>™</sup> Plastic Mop Adapter are ideal when more surface area coverage is needed and a standard mop head is too long for your cleaning application. This mop combination features a slip on style mop and adapter with 360° swivel.







# Bags and Liners

Micronova Bags and Liners, often gamma irradiated, can be used for a variety of containment functions in production, sample collection, and aseptic areas. Material transfer and disinfectant containment typically falls to the BucketLiner™ group with the impermeable LDPE/Nylon Laminate construction. Hazardous and production material disposal, and garment collection are most common for the BinLiners and Biohazard Bags, made from FDA compliant LDPE resin.



**Biohazard Bags** Irradiated Biohazard bags are ideal for aseptic suites in cell therapy and related disciplines. Both the yellow and red bags are made from FDA compliant LDPE and available in 2 to 4-mil thicknesses. Each bag displays a large biohazard symbol and warning message. Available flat packed or on a plastic core roll, the bags range from 60 to 210 liter.



BucketLiners<sup>™</sup> These impermeable liners are designed for liquid containment and will hold liquids going through the autoclave. The LDPE laminate construction also makes these bags superior for material transport. Liners come in either a horizontal orientation that works well in standard buckets, or a square or vertical orientation for small canisters or square buckets.



#### Irradiated Closure Ties

A convenient way to seal liners and biohazard bags in the cleanroom or aseptic area. The nylon ties are long enough to easily fit around the neck of a 4 or 6-mil bag.

**BinLiner Stand** pictured with BinLiner. See our Liner catalog for options

**BinLiners** These durable liners are sized to meet the disposal needs of biopharma production. The LDPE liners are available flat packed or on plastic core rolls for the cleanroom, in a range of sizes from 10 to 210 liter and thickness from 1 to 6 mil.

See Our Mini Catalog **Bag Cutters** Automatically retractable safety blade guard and ergonomic handle are available gamma irradiated. Excellent for opening raw material packages. Both the original style with fold back cover and the newer yellow hook style cutter are disposable with no blade changes required.



#### See Our Mini Catalog **Þ**

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# Pens, Markers, and Tapes for Critical Processes

Cleanroom pens and tapes minimize contamination brought into critical labs and production spaces. Good documentation is supported with Micronova's indelible ink pens for paper records, IPA resistant lab markers, and gramma irradiated permanent markers.

Cleanroom tapes with plastic core tapes for autoclave, color coding and sealing in wet, warm, or cold temperatures along with safety tapes are detailed in the tape mini catalog.

> See Our Mini Catalog

#### Sharpie® Markers The industry standard, pen style permanent marker. Available in original "capped," ultra fine, and retractable styles.



#### **Smear Proof Marker**

A permanent marker that gives the thinnest permanent line at 0.3 mm. The long nib and quick dry ink works well with lab samples as well as paper.



#### **Cleanroom Pens** feature an indelible ink low in sodium and a special high-density poly barrel to limit particle generation.



Available gamma irradiated in stick or clickstyles, Black, Blue and Red.

#### IPA Resistant Lab Markers and Gel Pens



Fine point black markers or black or blue click gel pens are available gamma

irradiated.





Tape is latex-free, with low extractables and acrylic clean peel adhesive. Medium tack standard and low tack for glove sealing. Available gamma irradiated. **Vinyl Tape** is a medium tack adhesive, ensures a clean peel from plastics, glass, and cleanroom work surfaces. With a range of colors and matte finish the tape is ideal for marking.





#### Lead-Free Autoclave Indicator Tape Environmentally friendly lead-free autoclave indicating tape wound on plastic core. RoHS compliant.



# **Detail Cleaning**

Cleaning challenges are minimized by using tools that are designed for the equipment with materials that match abrasion needs without scratching critical parts or equipment.





SilSat™ Wipes clean and lubricate gaskets and seals in isolators, incubators, refrigerators and safety cabinets, with a blend of silicone and IPA.

Concave tank sides and bottoms, overhead piping, and vessel interiors can be as easy to clean as a flat wall.



TankTool™ Conforms to tank contours

LyoTool™

shelf width

Sized to meet

Cove N Curve™

Maleable to match wall coving or piping curves



**FlexBrush™** Flexes to clean ducting or piping exteriors

**Dual cleaning** surfaces for Lyophilizer shelves, narrow spaces, and strip curtains cut cleaning time in half.



MegaSwat™ Blade mop for narrow spaces in, around, and under equipment



Econo Curtain Cleaner<sup>™</sup> Slides down both sides of strip curtains simultaneously

Clean and reduce residual liquids on soft walls, windows, ceilings and floors.



Т-Мор™ Rounded mop slides down surfaces Window Washer™ Simple and efficient T-Mop, Squeegee Combo Tool



Squeegees Durable construction for wet areas



# Mopping Companions

Highly filtered detergents, sponges, wipes and brushes designed for the cleanroom fill the need for effective residue removal on floors, parts, and in sampling areas. Micronova's Modular bucket systems improve are lightweight and ergonomic space savers.



Micronova's BucketBinder<sup>™</sup> Multi Bucket System and **MegaWringer**<sup>™</sup> down press wringer, are key elements in Micronova's Modular Cart Group.

The M-Zone® Storage Cart reduces the footprint of the double bucket systems by half for storage.





MegaWringer<sup>™</sup> Downpress wringer

BucketBinder™ Double bucket system

(3) Bucket Liners<sup>™</sup> LDPE/Nylon laminate barrier

Micronova mops and sponges are complemented by the NovaClean® range of detergents which effectively emulsify and remove particles and residues during the wetting and wiping process. The non-toxic formulation is filtered to 0.1 micron and is NSF rated.

Available as a concentrate or in ready to use Lab & Glass Cleaner<sup>™</sup>, the fast drying Novahol<sup>®</sup>, with added IPA, or M-Zone<sup>®</sup> Screen Wipes, presaturated with a blend of NovaClean and IPA.



#### M-Zone<sup>®</sup> **ScreenWipes**

Clean and dry delicate screens, tablets and equipment with this combo pack of wet and dry wipes.

PolyMesh<sup>™</sup> sponges and covers can be used to remove residues in sampling hoods, weight stations, and small vessels.



Fine Wire and Plastic Brushes with stainless steel or polypropylene cores safely clean parts with small diameters and flex through piping.





## Hand Hygiene Touch Free Sanitation



The act of removing viruses, bacteria or other unwanted substances from your hands is simple with Micronova's soaps and sanitizers.

Touch Free MicroDispenser™ 

> **Dispenser and** Floor Stand







NovaClenz<sup>®</sup> Ethanol Gel Hand Sanitizer



HyGClenz™ Antiseptic hand soap with persistent activity



About Face<sup>™</sup> Cleansing Wipes pre-moistened cleansing wipes, gentle enough for the face, can be used as a pre-cleaning wipe to remove surface soil prior to gloving or sanitizing hands. Removes makeup with a moisturizing alcohol-free lotion on a biodegradable wipe.





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## BIOPHARMA & BIOTECH / Part Number List

Product Name	Micronova® Part Number	Description	Thomas Part Number	Handle Suggestion*
PAGE 2: HIGH ABSORE	ENCY, LOW PARTIC	CULATING, ECONOMICAL MOPS		
SlideMop™	MZSM63-16	Polyester SlideMop, 16 in	20A00M798	
	MZSM63-16IR	Polyester SlideMop, Irradiated, 16 in	21A00Q187	
	Part NumberFiE 2: HIGH ABSORBENCY, LOW PARTICULATING, ECONOMICAL MOPSeMop™MZSM63-16Polyester SlideMop, 16 in2oPSM-16Stainless Steel Mop AdapteroMop™MZSM6AA-14OPSL-14Plastic SlimLine Mop Adapter, 14 inoMop™MZNS6-14OPSL-14Polyester NovaSnap, 14 inaSnap™ MopMZNS6-14MZSSM6AA.14Polyester NovaSnap, 14 inOPSL-14Plastic SlimLine Mop Adapter, 14 inODEnier aKnit™ MopMD513-12WMD5131-12WIRMicrodenier NovaKnit String Mop, IrradiatedODMH-1String Mop AdapterODMH-1String Mop AdapterString Mop AdapterOME 3: SMALL SPACES	20A00M800	STAH60WH	
	MZSM6AA-14	Microfiber SnapMop, 14 in	22A00A520	
	QPSL-14	Plastic SlimLine Mop Adapter, 14 in	QPSL14	STAH60WH
	MZNS6-14	Polyester NovaSnap, 14 in	22A00A522	
NovaSnap <sup>™</sup> Mop	MZNS6-14IR	Polyester NovaSnap, Irradiated, 14 in.	22A00A523	
1 1	QPSL-14	Plastic SlimLine Mop Adapter, 14 in	QPSL14	STAH60WH
QPSL-14Plastic SlimLine Mop Adapter, 14 inMicroDenier NovaKnit™ MopMD51-31-12WMicrodenier NovaKnit String MopMD5131-12WIR QDMH-1Microdenier NovaKnit String Mop, Irradiated	MD51-31-12W	Microdenier NovaKnit String Mop	22A00A512	
	MD5131-12WIR	Microdenier NovaKnit String Mop, Irradiated	MD513112WIR	
	QDMH1	SSU4		
J-Zone <sup>™</sup> MegaSorb <sup>™</sup> Mop	JZMZCRMS-10	Blue Microfiber MegaSorb String Mop	JZMZCRMS10	
PAGE 3: SMALL SPACES	S			
Isolator Tool™	ITC6-9NS	NovaPoly™ Isolator Tool Cover, 2 in x 9 in	ITC69NS	
	ITC6-9NSIR	NovaPoly™ Irradiated Isolator Tool Cover 2 in x 9 in	20A00M795	
	QPIT-09	Adapter, Plastic Isolator Tool, ACME Connect, 9 in.	QPIT09	STAH12WH
	MZSM6-9NS	NovaPoly™ FlatMop 9 in	22A00A518	
The second secon			l	

FlatMop™	MZSM6-9NSIR	Irradiated NovaPoly™ FlatMop 9 in	22A00A519	
	QPSL-09	Adapter, Plastic SlimLine, threaded connect, 9 in	21A00P810	STAH24WH
PolyMitt <sup>™</sup>	MWDT-611	Cleaning Mitt, NovaPoly, Double Thick Foam lined	22A00A515	
	MWD-611IR	Cleaning Mitt, NovaPoly with thick foam, irradiated	22A00A517	

#### PAGE 4: BAGS & LINERS

BL2-25REIRBB	Irradiated Red Biohazard Bag, 25 x 36 in, 2 mil	22A00A496
BL2-32YEIRBB	Irradiated Yellow Biohazard Bag, 32 x 36 in, 2 mil	22A00A497
BKL7-3119	BucketLiner, LDPE/Nylon, 31 x 19 in	BKL73119
BKL7-3119IR	Irradiated BucketLiner, LDPE/Nylon, 31 x 19 in	B7BLIR
BKL99-3521IR	Irradiated BucketLiner, LDPE/Nylon, 35 x 21 in for B-99 Bucket	22A00A477
BL2-40TRIRB	Irradiated Bin Liner, LDPE bin liner, 40 x 48 in 2 mil	21A00B178
BL4-40TRIRB	Irradiated Bin Liner, LDPE bin liner, 40 x 48 in 4 mil	22A00A499
BLSSH-1624	Bin Liner Stand for 40 x 48 in or 40 x 60 in bags	21A00B931
BLT-12IR	Closure Ties, Irradiated, 12 in	22A00A500
BC-01IR	Safety Bag Cutter, Irradiated, orange	22A00A494
BC-02IR	Safety Bag Cutter, Irradiated, yellow	22A00A495
	BL2-32YEIRBB     BKL7-3119     BKL7-3119IR     BKL99-3521IR     BL2-40TRIRB     BL4-40TRIRB     BLSSH-1624     BLT-12IR     BC-01IR	BL2-32YEIRBBIrradiated Yellow Biohazard Bag, 32 x 36 in, 2 milBKL7-3119BucketLiner, LDPE/Nylon, 31 x 19 inBKL7-3119IRIrradiated BucketLiner, LDPE/Nylon, 31 x 19 inBKL99-3521IRIrradiated BucketLiner, LDPE/Nylon, 35 x 21 in for B-99 BucketBL2-40TRIRBIrradiated Bin Liner, LDPE bin liner, 40 x 48 in 2 milBL4-40TRIRBIrradiated Bin Liner, LDPE bin liner, 40 x 48 in 4 milBLSSH-1624Bin Liner Stand for 40 x 48 in or 40 x 60 in bagsBL7-12IRClosure Ties, Irradiated, 12 inBC-01IRSafety Bag Cutter, Irradiated, orange

\* Other sizes available

(continued)



### BIOPHARMA & BIOTECH / Part Number List (continued)

Product Name	Micronova® Part Number	Description	Thomas Part Number	Handle Suggestion*
PAGE 5: PENS, MARK	ERS, TAPE FOR CRI	TICAL PROCESSES		
Sharpie <sup>®</sup> Markers	PEN-20IR	Sharpie <sup>®</sup> Marker, Black, Fine Point, Irradiated	PEN20IR	
	PEN-22IR	Sharpie <sup>®</sup> Marker, Blue, Fine Point, Irradiated	22A00A485	
-	PEN-23IR	Sharpie <sup>®</sup> Marker, Red, Fine Point, Irradiated	22A00A486	
Smear Proof Marker	PEN-61IR	Marker, Fine Point, Black, 0.03mm, Irradiated	21A00B503	
	PEN-01	Cleanroom Pen, Low Sodium Ink, Black	PEN01	
Cleanroom Pens	PEN-01IR	Cleanroom Pen, Low Sodium Ink, Black, Irradiated	PEN01IR	
	PEN-12	Cleanroom "Click" Pen, Fine Point Blue	22A00A483	
	PEN-12IR	Cleanroom "Click" Pen, Fine Point Blue, Irradiated	PEN-12IR	
	PEN-40	Lab Marker, IPA Resistant, Black	PEN40	
IPA Resistant	PEN-40IR	Lab Marker, IPA Resistant, Black, Irradiated	PEN40IR	
Markers & Gel Pen	PEN-18IR	Cleanroom Click Pen, IPA Resistant Ink, Blue, Blue, Irradiated	PEN-18IR	
	EGV-1WH	Vinyl cleanroom tape, white 1 in width	20A00G476	
Vinyl Tape	EGV-1DG	Vinyl cleanroom tape, dark green 1 in width	22A00A509	
	EGV-10R	Vinyl cleanroom tape, orange 1 in width	22A00A510	
Polyethylene Tape	EGP-1TR	Polyethylene cleanroom tape, transparent, 1 in width	22A00A507	
5 5 1	EGP-1WH	Polyethylene cleanroom tape, white, 1 in width	22A00A508	
Autoclave Tape	AUTOPC-34	Lead-Free Autoclave Tape on a plastic core, ¾ in width	AUTOPC34A	
PAGE 6: DETAIL CLEA	NING			
SilSat <sup>™</sup> Wipes	SSW6-01IR	SilSat Wipe, Silicone/IPA Pre-Sat, Irradiated	SSW601IR	
Tank Taal™ and Cauar	QDSLTT-14P	Tank Tool, Quick Disconnect end, 14 in	22A00A525	SSU1
PAGE 6: DETAIL CLEANING   SilSat™ Wipes SSI   Tank Tool™ and Cover QD   Cove N Curve™ QP	MZSM6AA-14	Microfiber, SnapMop <sup>™</sup> 14 in	22A00A520	
Cove N Curve <sup>™</sup>	QPRCVT-16	Cove N Curve Adapter, Convex Curve, 16 in	22A00A527	STAEH072WH
Cove N Curve <sup>™</sup>	MZSM11-16SIR	PolySorb <sup>™</sup> FlatMop <sup>™</sup> Irradiated Cover, 16 in	21A00K718	
FlexBrush <sup>™</sup> and Cover	BRWM-22512J	FlexBrush, J Shape, 2.25 x 12 in	BRWM22512J	
	FBC-6AA	FlexBrush cover, Microfiber	22A00A511	
LyoTool <sup>™</sup> and Cover	QDBP14-03	LyoTool, Dual Plate Mop Adapter, 3 to 4.5 in opening, 14 in	22A00A524	
	MZSM56-14	NovaPoly <sup>™</sup> , smooth polyester, SnapMop <sup>™</sup> 14 in	MZSM5614	
MegaSwat <sup>™</sup> and Cover	MS611-16LIR	NovaPoly MegaSwat foam lining, Irradiated 16 in	22A00A513	
	MSAA-8NS	Microfiber MegaSwat, 8 in	22A00A514	
	QDMS-16	MegaSwat Mop Adapter, for MegaSwat Mops, HDPE Blade, Acetal/Stainless Steel handle, 16 in	20A00M805	
	QDMS-8	MegaSwat Mop Adapter, for MegaSwat Mops, HDPE Blade, Acetal/Stainless Steel handle, 8 in	QDMS8	
Econo Curtain Cleaner™	QPECC-14	Econo Curtain Cleaner Mop Adapter, threaded end, 14 in	QPECC14	STAH60WH
and Cover	ECC6-14	Econo Curtain Cleaner Cover in NovaPoly™, 14 in	ECC614	
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(Page 6: Detail Cleaning continued)



## BIOPHARMA & BIOTECH / Part Number List (continued)

Product Name	Micronova® Part Number	Description	Thomas Part Number	Handle Suggestion*
PAGE 6: DETAIL CLEA	NING (continued)			
T-Mop <sup>™</sup> and Cover	QDT-14*	T-Mop Adapter, Stainless Steel, 14 in	QDT14	SSU-1
	TAA-14	T-Mop, Microfiber, 14 in	22A00A535	
Window Washing Tool and T-Mop <sup>™</sup> Cover	QPWT-18	Window Washing Tool, combination T-Mop and squeegee, 18 in	22A00A528	STAH48WH
	T6-18	T-Mop, NovaPoly, 18 in	20A00C707	
PAGE 6: DETAIL CLEAN I-Mop <sup>™</sup> and Cover Window Washing Tool and T-Mop <sup>™</sup> Cover Plastic Squeegees PAGE 7: MOPPING CO NovaClean® Detergents ScreenWipes <sup>™</sup> BucketBinder <sup>™</sup> BucketBinder <sup>™</sup> Bucket System M-Zone® Storage Cart MegaWringer <sup>™</sup> PolyMesh <sup>™</sup> Sponges 	SQDB-24	Plastic Squeegee, Dark Blue, Foam Blade, 24 in	22A00A529	STAH60WH
Plastic Squeegees	SQDG-24	Plastic Squeegee, Dark Green, Foam Blade, 24 in	22A00A530	STAH60WH
PAGE 7: MOPPING CO	OMPANIONS			
	NC1-G	NovaClean Cleanroom Concentrated Cleaner, 1 gal	NC1G	
NovaClean® Detergents	NC2-Q	Lab & Glass™, RTU NovaClean Cleaner, 1 qt	NC2Q	
	NH1-G	NovaHol® Cleanroom, RTU NovaClean with IPA, 1 gal	NH1G	
ScreenWipes™	MZSW40-910	M-Zone <sup>®</sup> ScreenWipe, Wet and Dry Dual Pack	22A00A521	
BucketBinder <sup>™</sup> Bucket System	BB-DBL-DBYE	BucketBinder Double Bucket System, Blue, Yellow bucket	22A00A493	
M-Zone <sup>®</sup> Storage Cart	C-40ST	Storage Cart, Holds handles, wringers, buckets, C-7 carts	22A00A506	
MegaWringer™	W-94	Wringer, MegaWringer, for flat mops up to 18 in	20A00M808	
PolyMesh <sup>™</sup> Sponges	SP68-46	PolyMesh Sponge, Polyester Mesh, 4 x 6 x 1/2 in	SP6846	
Fine Wire and Plastic Brushes	BRPL-118	Plastic Tube Brush, polypropylene bristles and core, 1 in diameter	22A00A501	
	BRWL-349	Stainless Steel Wire Brush, Nylon bristles, ¾ in diameter	22A00A505	
	BRRE-01	Plastic Bottle Brush, Red, 3.25 in diameter	22A00A502	

#### **PAGE 8: HAND HYGIENE**

AquaHol™	IC-220	AquaHol Alcohol Solution, 70% IPA / 30% WFI	IC220
NovaClenz®	IC-210	NovaClenz Instant Hand Sanitizer, 60% Alcohol Gel	IC210
Hy-G-Clenz <sup>™</sup>	IC-420	Hy-G-Clenz Instant Antiseptic Lotion Soap, 500mL	IC420
Dispenser	ICDISP-3	M-Zone <sup>®</sup> MicroDispenser Touch Free Dispensing Unit	ICDISP3
About Face™ Cleansing Wipes	MMR-01	About Face Cleansing Make Up Remover Wipes	20A00K235

