



# Micro-Kill® D1 Plus Germicidal Wipes

Technical data bulletin  
EPA Reg. No. 1677-263-37549

## Product Classification

All-in-one bactericide, \*virucide, tuberculocide, fungicide, deodorizer.

## Product Description

Medline Micro-Kill® D1 Plus Germicidal Wipes are durable, low lint polypropylene cloths that feature a Dodecylbenzenesulfonic Acid solution to kill 47 microorganisms, including bacteria, antibiotic-resistant bacteria, viruses, veterinary viruses, yeast, fungi and mycobacterium in 75 seconds or less.\*\* The germicidal wipe is designed for general cleaning and disinfecting of hard, non-porous surfaces including medical, dental and laboratory countertops, telephones, sink tops, toilet seats, glazed porcelain, stainless steel, Formica®, vinyl, rubber, most plastic surfaces and mobile workstations.

## Specifications

Active ingredients	Percentage
Dodecylbenzenesulfonic acid	0.29%
Other ingredients	99.71%
<b>Total</b>	<b>100.00%</b>

<b>Appearance</b>	Pre-saturated wipes
<b>Color</b>	White (liquid: clear, colorless)
<b>Odor</b>	Sweet
<b>pH</b>	2.1 – 2.4
<b>Flammability</b>	Not flammable, does not sustain combustion
<b>Relative Density</b>	1.007–1.009
<b>Product Expiration</b>	365 days

## Efficacy

### Bacteria—1-minute contact time

*Pseudomonas aeruginosa* (ATCC 15442)  
*Staphylococcus aureus* (ATCC 6538)  
*Bordetella pertussis* (ATCC 12743)  
*Escherichia coli* (ATCC 11229)  
*Escherichia coli* O157:H7 (ATCC 35150)  
*Salmonella enterica* subspecies *enterica* serovar Typhi (ATCC 6539)  
*Stenotrophomonas maltophilia* (ATCC 25596)  
*Streptococcus pyogenes* (ATCC 19615)  
*Vibrio cholerae* (ATCC 14035)

### Antibiotic-resistant strains of bacteria—1-minute contact time

*Acinetobacter baumannii* (MDR) (ATCC BAA-1605)  
*Escherichia coli* (ESBL) (ATCC BAA-196)  
*Escherichia coli* (NDM-1) (CDC 1001728)  
*Enterococcus faecalis* (VRE) (ATCC 51299)  
*Enterococcus faecium* (MDR) (ATCC 51559)  
*Klebsiella pneumoniae* (KPC) (ATCC BAA-1705)  
*Klebsiella pneumoniae* (MDR) (ATCC 51503)  
*Klebsiella pneumoniae* (NDM-1) (ATCC BAA-2146)  
*Proteus mirabilis* (ESBL) (ATCC BAA-856)  
*Staphylococcus aureus* MRSA (ATCC 33592)  
*Staphylococcus aureus* VISA (CDC HIP 5836)  
*Staphylococcus aureus* CA-MRSA Genotype USA 400 (ATCC BAA-1683)

### Viruses\*—1-minute contact time

\*Adenovirus Type 5 strain Adenoid 75 (ATCC VR-5)  
 \*Cytomegalovirus Strain AD-169 (ATCC VR-538)  
 \*Hepatitis B Virus HBV (Duck Hepatitis B as the surrogate)  
 \*Hepatitis C Virus HCV (Bovine Viral Diarrhea virus as the surrogate) (ATCC VR-1422)  
 \*Herpes simplex virus type 1, Strain F(1) (ATCC VR-733)  
 \*Herpes simplex virus type 2, Strain G (ATCC VR-734)  
 \*Human Coronavirus strain 229E (ATCC VR-740)  
 \*Human Immunodeficiency Virus type 1  
 \*HIV-1 Strain HTLV-III<sub>B</sub>  
 \*Human Rotavirus Strain WA (ATCC VR-2018)  
 \*Human Rhinovirus Type 37 strain 151-1 (ATCC VR-1607)  
 \*Influenza A virus (ATCC VR-544)  
 \*Influenza B virus Strain B/Lee/40 (ATCC VR-1535)  
 \*Norovirus Feline Calicivirus FCV, strain F-9 as the surrogate (ATCC VR-782)  
 \*Respiratory syncytial virus (RSV) Strain Long (ATCC VR-26)  
 \*Vaccinia virus, Strain WR (ATCC VR-119)



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## Efficacy, continued

### Veterinary Viruses—1-minute contact time

Avian Influenza A strain VNHSN1-PR8/CDC-RG (CDC #2006719965)

Bovine Viral Diarrhea virus (ATCC VR-1422)

Canine Parvovirus Strain Cornell-780916-80 (ATCC VR-2017)

Duck Hepatitis B virus

Feline Calicivirus strain F-9 (ATCC VR-782)

### Yeast—1-minute contact time

*Candida albicans* (ATCC 10231)

### Yeast—75-second contact time

*Candida auris* (AR-BANK #0381)

### Fungi—75-second contact time

*Trichophyton interdigitale* (ATCC 9533)

### Mycobacterium—45-second contact time @ 22.4°C

*Mycobacterium bovis* (BCG) (TB) (ATCC 35743)

## Additional information

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling
- Do not use as a diaper wipe or for personal cleansing
- This is not a baby wipe
- Do not flush in toilet
- Do not reuse or refill empty container

## Storage and disposal

- Store in original container in areas inaccessible to children and persons unfamiliar with its proper use
- Product must be stored in a dry area, away from direct sunlight and heat—Do not store in direct sunlight.
- Do not reuse or refill empty container. Rinse and recycle empty container or discard in trash.
- Keep from freezing

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## Material Compatibility

### Materials tested determined to be compatible with Micro-Kill D1 Plus wipes were:

#### Plastics

- Acrylonitrile Butadiene Styrene (ABS)
- Polytetrafluoroethylene (PTFE)
- High Density Polyethylene (HDPE)
- Polyvinyl Chloride (PVC)
- Polyethylene Terephthalate (PET)
- Polysulfone (PSU)
- Polyphenylsulfone (PPSU) Elastomers
- Polyetheretherketone (PEEK)
- Polystyrene (PS)
- Polyamide (PA)
- Polyurethane (PU)
- Polycarbonate (PC)
- Polypropylene (PP)
- Acetal Copolymer (POM-C)
- Acetal Homopolymer (POM-H)
- Polyvinylidene Fluoride (PVDF)

#### Engineered Hard Surfaces

- Corian
- Krypton
- High Pressure Laminate (HPL)
- Glass

#### Metals

- Brushed Stainless Steel
- Bright Stainless Steel
- Titanium\*\*\*
- Lacquered Aluminum\*\*\*
- Anodized Aluminum
- Chrome-plated Brass
- Nickel

#### Elastomers

- Nitrile\*\*\*
- Silicone
- Ethylene Propylene Diene Monomer (EPDM)
- Neoprene
- Viton®
- Rubber

#### Fabric/Upholstery

- Vinyl/PU coated fabric
- PVC Coated Polyester
- PVC Coated Cotton
- PU/ Polyester bi-elastic
- Nylon Fabric\*\*\*
- Skai Coated Fabric

### Materials tested determined to be incompatible with Micro-Kill D1 Plus wipes were:

#### Plastics

- Poly Methyl Methacrylate (PMMA) (Acrylic)

#### Fabric/Upholstery

- Polyurethane coated Polyester
- Velvet Polyester

\*\*See product label for specific organism contact times. .

\*\*\*Cosmetic changes, stickiness or a change in surface roughness may be considered unfavorable from an anesthetic or use standpoint and should be taken into consideration when determining whether to adopt use on a potentially sensitive surface.