



ARMAKLEEN™ MM-Spray HD Heavy-Duty Aqueous Metal Spray Cleaner Product Information

General Description

ARMAKLEEN™ MM-Spray HD is a heavy-duty, low foaming liquid cleaner and rust preventative for use in cabinet and pass-through spray washers. ARMAKLEEN™ MM-Spray HD is multi-metal safe so it can be used to clean a variety of substrates including steel, stainless steel, cast iron, aluminum, copper and brass. The unique chemical composition of MM-Spray HD makes it ideal for use in JRI and customer owned spray washers. It effectively removes soils while maintaining pH, which leads to an extended bath life and lower cleaning costs. The oil splitting formula can be used effectively with oil skimming or coalescing systems to extend the life of the cleaner.

When left on metal surfaces, ARMAKLEEN™ MM-Spray HD provides temporary indoor rust protection during storage and between operations. The duration of rust protection is directly related to environmental storage conditions.



NSF Registered: ARMAKLEEN™ MM-Spray HD is acceptable for use as a general cleaner (A1) on all surfaces in and around food processing areas, where its use is not intended for direct food contact. Use of ARMAKLEEN™ MM-Spray HD in food processing or handling facilities requires that all food products and packaging materials be removed or protected prior to product use. A potable (drinkable) water rinse of cleaned surfaces is required after use of this product. When used at proper concentrations, ARMAKLEEN™ MM-Spray HD shall not exhibit a noticeable odor nor leave a visible residue.

<i>FEATURES</i>	<i>BENEFITS</i>
Low Foaming	Will not foam in spray applications as low as 100°F
Multi-Metal Safe	Can simultaneously clean steel, aluminum, copper and brass
Versatile	Safe and effective on a variety of substrates and soils
Cleaner/Rust Preventative	Cleans metals and provides short term rust protection
Non flammable	Improves employee safety and eliminates fire hazards
No VOCs	Meets all Air Quality standards for VOC emissions
No phosphates, nitrites or amines	Safer for workers and the environment

SK Part Numbers

ARMAKLEEN™ MM-Spray HD (55 gallon drum) SK P/N: 6436

ARMAKLEEN™ MM-Spray HD (5 gallon drum) SK P/N: 6336

Operating Parameters

Operating Temperature: 100°F - 190°F

Operating Concentration: 10%/volume

pH Concentrate: 13.7

pH at 10%/volume: 12.5

Equipment Recommendations

Spray Washers

Soil Compatibility

Grease, oil, lubricants, machining fluids, rust preventatives, metal working compounds, and other commercial and industrial soils

Substrate Compatibility

Steel, stainless steel, cast iron, aluminum, copper, brass and other alloys

Compliance Information

MSDS Information: SK P/N 82910 Cleaning Solution (English version)

SK P/N 82911 Concentrate (English version)

SK P/N 82910FC (French version)

Titration Information

SK P/N 4596 Free Alkalinity Titration Kit (order through branch SAP).

Additives

ARMAKLEEN™ M-Defoamer HD SK P/N 6310 (Pints – 8 per case)

ArmaKleen M-RP (for added rust protection) SK P/N 6342 (5-gallon pail)

Precautions

At elevated usage concentrations (>10% dilution), spotting or staining may occur in no-rinse applications. Foaming may occur in high pressure (above 60 psi) spray systems or at operating temperatures below 100°F.

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IMPORTANT: The information presented in this product labeling and literature, while not guaranteed, is true and accurate to the best of our knowledge. No warranty, express or implied, is made regarding performance, stability or otherwise. Such information is not intended to be all-inclusive, and the manner and conditions of particular uses may involve other or additional preparatory, performance or safety considerations. While our technical personnel will be happy to respond to questions, safe, effective handling and use remains the responsibility of the user.