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## Metal Safe Machine Dish Detergent

SparClean Metal Safe Machine Dish Detergent is a non-chlorinated, low foaming, highly concentrated warewashing detergent for use in both low and high temperature dish machines. It is specially formulated to prevent corrosion of Aluminum, Copper, Brass, and other soft Metals. Metal Safe Machine Dish Detergent strips away and emulsifies soils from pots and pans, trays, dishes, glassware, plastic, and utensils. This powerful formula efficiently removes all types of food soils and suspends them for complete spot-free rinsing.



Providing Quality Maintenance and Chemical Specialty Solutions with Unparalleled Customer Service



Spartan Chemical Company, Inc.  
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 Maumee, OH 43537  
 1-800-537-8990  
 www.spartanchemical.com

**COLOR AND NUMBER SYSTEM:**

Each SparClean product is color and number coded for easy product identification. All product references and labels reflect this color and number, making training short and simple.

**PACKAGING:**

All SparClean products are packaged in translucent 5-gallon pails and gallons. The clear packaging allows you to see exactly what remains in your container and enables timely reorder of your warewash products. SparClean Metal Safe Machine Dish Detergent is also offered in closed system gallon packaging to reduce possibility of contact with product.

**SUPPORT ACCESSORIES:**

Several dispensing options are available to complement the SparClean warewash line of products. Spartan smooths your transition with training materials such as a general application SparClean Warewash Wall Chart.

**DISH DETERGENT FOR MECHANICAL AND COMMERCIAL MACHINES**

Metal Safe Machine Dish Detergent should only be used in mechanical dish machines and commercial dish washers equipped with automatic dosing systems. Metal Safe Machine Dish Detergent is low foaming and free rinsing. Metal Safe Machine Dish Detergent works in all water conditions and all water temperatures. Ideal for use in conveyor, flight type, under counter, and single rack dish machines.

**IDEAL FOR:**

Metal Safe Machine Dish Detergent demonstrates excellent performance and results in bakery pan washers, grocery stores, food processors, and other low foam, soft metal cleaning operations.

**DIRECTIONS FOR USE:**

Some individuals may be sensitive to ingredients in this product. Before use, read product label and MSD sheet. If questions remain, consult your employer or a physician.

SparClean Metal Safe Machine Dish Detergent can be used in both high and low temperature style dish machines. SparClean Metal Safe Machine Dish Detergent dosages will vary depending on the type of dish machine being used.

1. Scrape and pre-rinse dishes before washing.
2. Properly rack and load dishes according to machine manufacturer's directions.
3. SparClean Metal Safe Machine Dish Detergent may be used with a probe or probeless dispenser. Set dispenser according to the manufacturer's directions.
4. For High and Low Temperature Dish Machines:
  - a. Charge tank with 5 – 6 mls of this product per 1 gallon of water.
  - b. Titrate wash water alkalinity to verify proper chemical concentration. Wash water should titrate to 50 – 70 ppm of active alkalinity.
  - c. Adjust dosage based on soil load, increase when necessary.

For excessive hard water situations, an increase in SparClean Metal Safe Machine Dish Detergent may be needed. For best results use in conjunction with a SparClean rinse aid.

**SPECIFICATION DATA:**

- pH – 13.5 – 14.0
- Color – Clear
- Stability –
  - a. Shelf – One year minimum @ 24°C/75°F
  - b. Accelerated – 30 days minimum @ 49°C/120°F
  - c. Freeze/Thaw – Can withstand three freeze/thaw cycles
- EDTA free

Each SparClean product is formulated to comply with various regulations. Consult Spartan's Letter of Guaranty for specifics.

**Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of this or any Spartan product. Material Safety Data Sheets for all Spartan products are available from your authorized Spartan distributor or at [www.spartanchemical.com](http://www.spartanchemical.com).**



Distributed by:

PACKAGING	
765805	5-gallon pail
765804	1-gallon (4 per case)
765804I	1-closed gallon (4 per case)



Label copy is provided in English and Spanish. Secondary labels are also available.

**GUARANTEE:** Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.

For institutional and industrial use only.

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