



# PRODUCT INFORMATION

MARTRON INC.<sup>®</sup> PO BOX 309 MONROE, NC 28111 (704) 289-1934 Fax (704) 283-7400

DATE: MARCH 28, 2017

EMERGENCY - MARTRON 704-289-1934

CHEMTREC 800-424-9300

MFC-000053

## MARTRON 732 SPH

**Martron 732 SPH** is a mildly alkaline, extremely low-foaming liquid cleaner for application in all types of power spray machines: monorail conveyor, continuous belt, spiral (helical screw), or cabinet washers. **Martron 732 SPH** may be used to clean ferrous metals, copper, brass alloys, bronzes, aluminum alloys, stainless steel, and nickel-clad stock. **Martron 732 SPH** will clean a variety of metal processing lubricants--synthetic lubricants, sulfurized and chlorinated oils, lard oil based, etc.

It may be used as a spray or immersion cleaner and may be used with ultrasonics. It generally will not etch highly polished surfaces.

**Martron 732 SPH** finds wide application in washing highly finished surfaces such as bearing parts, deep drawn cosmetic cases, or stainless-steel strip. **Martron 732 SPH** is free rinsing and leaves no residues on the substrate surface. These features are important if parts will enter heat-treating furnaces after cleaning. Many power wash cleaners can leave undesirable alkaline residues, which may foul the furnace over time. It is also an important characteristic if parts are to be plated or coated with an organic film such as paint.

**Martron 732 SPH** is also excellent cleaner for use in five stage iron and zinc phosphate lines. The clean surface will facilitate the production of the very smooth phosphate coatings.

### ADVANTAGES

- Low to no foam product.
- Liquid form makes it easy to add. No dangerous splatters or dissolution problem.
- Mixes readily with cold water.
- Contains no caustic, borates, solvents, nitrates, or nitrites.
- Silicate and chelating agent free; ideal for use where heat-treating follows cleaning operations.
- Biodegradable surfactant system.
- Tends to split oils and most non-water soluble metal working fluids from the cleaner.
- Mild pH (less than 10)

### PHYSICAL DATA

Specific gravity: .....1.188  
Solubility in water: .....complete  
Appearance and odor: .....pale yellow liquid, mild sweet odor  
pH: .....(conc) 8.0 To 9.0

### OPERATING PARAMETERS

Concentrations: .....1 to 10% (volume) optimum 4% to 5% (volume) for most applications  
Temperatures: .....100 to 180° F (38 to 82° C)  
Equipment: .....mild steel or stainless-steel tanks and heating coils

**Martron 732 SPH** may be operated in a wide temperature range, 100 to 180° F. Lower temperatures may be used for light soils, while higher temperatures may be required for heavy oils.

**CONTROLS**

## TEST KIT PROCEDURE

1. Fill test bottle 1/4 full of water.
2. Add 5 mls. **Martron 732 SPH** solution to the bottle, using the 5 ml syringe.
3. Add 3 to 8 drops Methyl Orange indicator.
4. Add drop wise 0.72 N Hydrochloric Acid until solution turns from yellow to red-orange.
5. Record number drops 0.72 N Hydrochloric Acid used.

$$\% \text{ (volume) Martron 732 SPH} = 0.30 \times \text{drops of 0.72 N Hydrochloric Acid}$$

## TITRATION PROCEDURE

1. Pipette a 50 ml sample into a 250 ml Erlenmeyer flask and dilute with 100 ml water.
2. Add 7 drops methyl orange indicator and mix.
3. Titrate with 0.5 N HCl until a color change of yellow to orange occurs.
4. Record mls of 0.5 N HCl used.

$$\% \text{ (volume) Martron 732 SPH} = 0.56 \times \text{MLS 0.5 N HCL Used}$$

**CAUTION**

**Martron 732 SPH** is a mildly alkaline product and should be handled accordingly. Avoid skin and eye contact. Wear protective clothing, goggles, and gloves. Flush exposed areas immediately with clean cold water. Contact a doctor promptly in case of injury.

**DISCLAIMER:**

The information contained within the bulletin is based upon extensive laboratory and production use and is believed to be correct. **Martron Inc.** makes no warranty, implied or expressed as to the accuracy of this data, all risks involved with the safe handling and the user assumes use of said product.