

# GARDOCLEAN® S 5655

Strongly Alkaline, Phosphorous-Free Spray Cleaner

## PRIMARY APPLICATION

GARDOCLEAN S 5655 is a liquid, strongly-alkaline cleaner for use in spray applications. It will remove a wide variety of soils from steel, iron, aluminum, zinc and magnesium substrates. Gardoclean S 5655 is formulated to produce minimal sludge and scale and will produce minimal foam. Gardoclean S 5655 will lightly etch aluminum and zinc substrates.

## CHEMICAL CHARACTERISTICS

Chemical Composition .....	Potassium hydroxide, phosphate, sequestrant, surfactants
Appearance .....	Amber liquid
Odor .....	Mild
Bulk Density .....	10.10 lbs/gal
Foam Tendency .....	Low
Viscosity .....	17 cps at 70°F, 21°C
Phosphorous-Free .....	Yes
NPE Surfactant-Free.....	Yes
pH: Concentrate.....	13.5

## APPLICATION PROCEDURE

### Bath Makeup

Fill the tank to 80% of its capacity with clean water. Add 2 - 4% by volume of Gardoclean S 5655 with mixing. Heat to operating temperature.

1. If the work is heavily soiled, and additional cleaning is needed, a Chemetall detergent additive can be added to the cleaner bath. A Chemetall representative will recommend the proper product and the correct use concentration.
2. If foaming occurs in the cleaner bath, the temperature of the bath may be too low. Raising the temperature of the bath will usually reduce foaming. The temperature of the bath should not exceed 160°F (71°C).

3. The initial charge and replenishment data contained herein are normal for most installations; however, a Chemetall representative may suggest a deviation from this data, if indicated by local conditions.

## SOLUTIONS CONTROL

Free Alkalinity Titration .....	6.8 – 13.6 mL
Temperature.....	110° - 150°F (43° - 66°C)
Treating Time .....	30 – 90 seconds
Nozzle Pressure.....	15 – 30 psi (1 – 2 bars)

### Maintenance of the Bath

The Gardoclean S 5655 bath is controlled by Free Alkalinity and Total Alkalinity Titrations. The procedures for these titrations are based on the mix of metal treated on the line

For use of Aluminum <30%, Free Alkalinity is titrated using Gardotest Procedure 124.

**Sample Size:** 10 ml.

For use of Aluminum >30%, Free Alkalinity is titrated using Gardotest Procedure 221.

**Sample Size:** 10 ml.

Total Alkalinity is titrated using Gardotest Procedure 126.

**Sample Size:** 10 ml.

The cleaner bath should be replenished, based on Free Alkalinity, by feeding Gardoclean S 5655. The Free Alkalinity Titration should be maintained within the control range specified by Chemetall. For each 1 mL of Cleaner Titration lacking, add 0.33 gal (1.25 L) of Gardoclean S 5655 per 100 gal (378 L) of bath.

## EQUIPMENT

The Chemetall Electrodeless Conductivity/Concentration Control System and Chemical Metering Pump can be used to monitor and automatically maintain the concentration of this product using conductivity. Please contact the Chemetall Process Equipment and Engineering Department for specific recommendations.

## NOTES ON USE (See Safety Data Sheet)

Tanks may be constructed of carbon steel, stainless steel or other appropriate chemically-resistant material. Heating surfaces should be constructed of stainless steel or other appropriate chemically-resistant material.

When preparing new solutions or adding to existing solutions, add slowly while mixing to avoid spattering. Do not add large amounts of product at one time, or to water or solution warmer than 140°F (60°C).

## SAFETY AND HANDLING

Prior to handling and use of any of the materials referenced in this document, the Safety Data Sheets should be read and understood by all personnel in contact with these materials.

## KEEP OUT OF REACH OF CHILDREN

## STORAGE

Dry indoor storage at temperatures between 40°F and 100°F (4.4°C and 37.8°C) is recommended, away from any incompatible materials referenced in the Safety Data Sheets. All containers should be tightly closed when not in use.

## DISPOSAL

Any disposal of the materials referenced in this document should be in accordance with all applicable federal, state, providential and local regulations. The process solution can contain components other than those present in the materials as supplied. Analysis of process solutions may be required prior to disposal.



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