



## Product Data

# Castrol CareClean MP 2

## Multi-purpose process cleaner

### Description

Castrol CareClean™ MP 2 is an aqueous, mildly alkaline industrial multi-purpose cleaner containing biodegradable surfactants and corrosion inhibitors. The product is designed to be user-friendly and eco-responsible. It is free of inorganic salts.

### Applications

CareClean MP 2 is a multi-purpose process cleaner for precision cleaning of most metals, even sensitive aluminum alloys. It cleans to the most demanding specifications in a wide range of modern equipment, which includes spray and intensive flood wash as well as all types of dip and ultrasonic applications.

CareClean MP 2 effectively removes soluble oils, light duty neat cutting or forming oils, lubrication oils, soft film corrosion preventives, swarf and general dirt.

### Conditions of Use

	Spray	Flood wash	Dip/Ultrasonic
Concentration Range	2 – 5%	2 – 5%	2 – 5%
Temperature Range	122 - 176°F (50 - 80°C)	122 - 176°F (50 - 80°C)	104 - 158°F (40 - 70°C)
Spray Pressure	50 psi	200 psi	n/a

### Advantages

- Provides in-process corrosion protection to minimize scrap and improve productivity
- Emulsified oil separates on standing and can be skimmed off in order to increase bath-life, reduce maintenance, and minimize disposal cost
- Free of inorganic salts eliminating the need for rinsing parts while improving part cleanliness
- Moderate pH level
- Versatile, can be used in various applications on most metals
- Suitable in hard and soft water enabling possible product consolidation

## Typical Characteristics

	Test Method	Unit	Value
Appearance	Visual	-	Clear Yellow Liquid
Density @ 59°F	-	lbs/gal	8.8
pH	-	5% solution	8.6
Boron	-	-	No
Phosphates	-	-	No
Silicates	-	-	No

## Concentration Control

### By titration:

1. Place (pipette) 50 ml sample of CareClean MP 2 solution into a flask or beaker.
2. Titrate 1.0 N sulfuric acid from a burette until reaching 4.6 on the pH meter.
3. The concentration of the CareClean MP 2 solution in % (v/v) can be calculated by multiplying the volume of 1.0 N sulfuric acid in ml by the concentration factor.
4. Prior to running tests on field samples, follow the above method using a sample of known concentration to obtain the concentration factor.

Concentration factor = % known concentration/ml acid needed to reach the end point.

### With Hach kit:

Add 2 vials of CareClean MP 2 solution and 1 pillow of indicator to mixing bottle. Count the drops of 0.5 N sulfuric acid required to change the color of the solution from green to pink.

Concentration % (v/v)	1	2	3	4	5
Drops	3	5	7	10	13

Castrol CareClean MP 2  
06.17.2011, Version Number 2.0  
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