VpCI®-423 Gel

PRODUCT DESCRIPTION
VpCI-423 is a rust remover that is harmless to people while effectively removing rust and tarnish from steel, iron, copper, brass, chrome, and aluminum. VpCI-423 removes corrosion from metal without creating waste disposal difficulties.

When used as recommended, VpCI-423 will not harm human skin or adversely affect most paints, plastics, wood, textiles, ceramics, or rubber. Removing corrosion from metal is easy. Apply VpCI-423 and rinse with water then use Cortec® VpCI-414 or VpCI-419 for added protection.

VpCI-423 is completely organic and 100% biodegradable, and does not have special disposal requirements for typical use. Waste treatment may be required if a sufficient quantity of pollutants (oil, solvents, dirt, grease) are introduced into the chemical solution.

Unlike conventional rust removers which can be extremely dangerous to use, handle, and store; VpCI-423 is so mild that minimal protective covering is needed. In addition, the non-toxic, non-flammable formulation has no pungent acid fumes. Being nearly odorless and extremely mild makes VpCI-423 easy to use.

VpCI-423 is formulated to stay in place for special applications that require the chemical to cling to vertical surfaces or the underside of horizontal surfaces. VpCI-423 makes it easy to remove rust from tanks, vessels, outdoor machinery and equipment, walls, fences, railings, and vehicles.

FEATURES
• Removes rust and corrosion from ferrous and non-ferrous metals
• Prevents flash rusting
• Completely organic and biodegradable
• Non-polluting and environmentally acceptable for easy disposal
• Loosens rust-frozen parts
• Cleans rust stains from painted, wooden, and other surfaces
• Safe to handle, use, and store
• No adverse effects on most paints, plastics, wood, textiles, ceramics, and rubbers
• Safe, non-toxic, non-flammable formulation and mild odor makes it ideal for in-plant use
• Gel form allows application on vertical or upside-down horizontal structures
• Accepted by USDA for use as an acid cleaner in food plants (indirect contact with food)
• NSN 6850-01-482-4536

TYPICAL APPLICATIONS
• In-process rust removal for parts and metal stock
• Interior and exterior surfaces of tanks and vessels
• Outdoor machinery and equipment
• Trucks, cars and other vehicles
• Automotive, marine and farm parts and equipment
• Fences, railings, and walls
• Tools, locks, and rust-frozen parts
APPLICATION
VpCI-423 can be applied using spray equipment, including air and airless spray, as well as by brush dip.

For spray, brush, or roll-on applications; remove loose rust. Then apply VpCI-423 concentrate to the surface, let product stand for 10-15 minutes and rinse with Cortec® VpCI-410 series (typically, little or no rubbing is required). Reapply if necessary. Medium and heavy rust will take somewhat longer.

For dip application; remove heavy deposits, loose rust, or tarnish. Soak part(s) in tank as long as required to remove corrosion. Remove from tank and rinse with Cortec® VpCI-410 series (VpCI-414/416) for added protection.

Increasing temperature up to 110°F (43°C) will speed the cleaning process.

PHYSICAL PROPERTIES

Appearance Dark brown gel
Non-volatile Content 36-45%
Density 9.6-10.0 lb/gal (1.16-1.19 kg/l)

RECOMMENDED SPRAY APPLICATION
For good atomization and spray pattern, use the following:

• Graco Air Assisted Airless High Pressure Gun, Model AA Plus
• Pump - 41:1 SST Bulldog, SP 5 gallon (19 liter) Ram with ram SSP plate extension
• Adapter - SST ram plate or 55 gallon (208 liter) DP ram and SST ram plate
• Tip - 715 (SST)
• Hose - 3/8” x 25’ Teflon (5 cm x 7.6 m)
• Cap - Standard with high flow needle and seat operating pressure of 3300 psi (228 bar)
• Filter - HP SST 100 mesh

PACKAGING AND STORAGE
VpCI-423 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. Store in a heated warehouse to avoid freezing.