

# VpCI®-427



## PRODUCT DESCRIPTION

VpCI-427 is a heavy-duty concentrate designed to remove oxide scale from parts and equipment fabricated from aluminum alloys, and as a preparation of aluminum surfaces for further processing such as anodizing, electroplating, or coating. In the past, mineral acids and caustic soda proved to be of limited effectiveness when used as cleaners for aluminum substrates. Another shortcoming of using aluminum cleaners currently available on the market is the scale formation upon heating and significant environmental risks involved with those products.

VpCI-427 is designed to overcome the disadvantages of conventional products. It dissolves aluminum oxide film from the surface and subsequently prevents its depositing an oxide scale. VpCI-427 is environmentally acceptable.

## TYPICAL USES

- Aluminum structural elements, automotive components, and castings
- Aircraft parts and components
- Preparation of aluminum surfaces before anodizing, painting, and electroplating

## FEATURES

- Replaces mineral acids and caustic soda
- Resists scale formation
- Environmentally acceptable

## APPLICATION

Light cleaning: 1 part VpCI-427 to 15 parts water  
 Normal cleaning: 1 part VpCI-427 to 8 parts water  
 Heavy-duty cleaning: 1 part VpCI-427 to 5 parts water

Time of exposure in the solution will depend on the needs for corrosion removal. VpCI-427 may be rinsed off with water or Cortec® VpCI-410 series to provide extra protection. For a bright finish, Cortec® VpCI-426 is recommended.

## PHYSICAL PROPERTIES

Appearance	Dark brown liquid
Non-volatile Content	40-45%
Weight per Gallon	11.4-11.5 lb/gal. (1.37-1.38 kg/l)

## Toxicological Testing Results

Test Species	NOEC/LOEC ppm	48-hr LC50* ppm
D. pules	100/1000	316
P. promelas	100/1000	304
M. beryllina	1000/5000	1510
M. bahia	100/1000	304

\* LC-50/EC-50 - 50% of Lethal concentration/50% of Effective Concentration respectively

### PACKAGING AND STORAGE

VpCI-427 is available in 5 gallon (19 liter), 55 gallon (208 liter) drums, totes, and bulk.

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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