



Tech

Technical Data

80 Metcalfe Street  
Buffalo, New York 14206  
716-856-2300/fax 716-856-7115

# CRIMSON RCO5B Rinse Conditioner

## GENERAL DESCRIPTION:

Crimson RCO5B is a blend of compounds which activates either ferrous or zinc surfaces and accelerates the formation of the most desirable type of zinc phosphate coating in subsequent zinc phosphate operations.

By the use of the Crimson RCO5B salts in a zinc phosphate cycle, it is possible to reduce processing time to a fraction of that formerly required. However, of greater importance is the fact that the crystal structure of the zinc phosphate coating produced in subsequent operations is modified so as to have optimum characteristics. This is done by producing a finer crystal structure which retains all of the beneficial properties of the normal phosphate treatments but weighs considerably less. In immersion applications, this reduction in weight may go as high as 50%.

Crimson RCO5B aids in producing a much more uniform coating by eliminating the effect of fingerprints and other handling marks. It also helps to eliminate a powdery surface.

By reducing the weight of coating deposited, the amount of sludge formed in the bath is reduced by a proportional amount. The thinner, more uniform coating is also much easier to cover with one coat of paint.

Through the use of Crimson RCO5B, it is possible to reduce by as much as 50% chemical consumption and sludge formation and at the same time, obtain a superior product.

## PHYSICAL PROPERTIES:

- ◆ Appearance: White Powder
- ◆ Odor: None
- ◆ Solubility: Essentially soluble in water at use concentrations with visible colloidal suspension

## APPLICATIONS:

- ◆ Crimson RCO5B solutions operate at room temperature. A spray treatment of 15-30 seconds or an immersion treatment of 1 minute is recommended. The solution of RCO5B should be applied in the rinse stage just prior to the application of the zinc phosphate coating. Carry-over of this blend will not harm a zinc phosphate bath.
- ◆ **BATH PREPARATION**  
The bath is prepared by dissolving 1/8 to 1/4 ounce of RCO5B per gallon of water at room temperature (1 pound per 100 gallons).

**CAUTION:** Crimson RCO5B should not be dissolved in hot water, as heat reduces its effectiveness.

## **CONTROL METHODS:**

- ◆ pH: 8.0 to 10.0
- ◆ Temperature: 70-90°F (21-32°C)

It can be readily determined by visual observation of crystal size if any additions of RCO5B are required. An addition of 0.1 ounce per gallon will restore any loss in activity.

Depending upon the amount of physical contamination and depletion it is advisable to recharge the tank every week.

\*\*\*If chemical control is desired, the following procedure can be used to determine concentration:\*\*\*

Make sure the bath is agitated. Pipette a 10 ml sample into a beaker, add 2-3 drops of Methyl Orange indicator and titrate with 0.1N sulfuric acid to the end point (yellow to orange). Each ml is equivalent to approximately 1/4 ounce per gallon.

## **EQUIPMENT:**

Steel equipment is suitable for use with RCO5B. For immersion application, air agitation is recommended for the RCO5B bath to keep the colloid present in proper suspension.

## **CAUTION:**

May irritate eyes and skin of anyone sensitive to mild detergents. Harmful if swallowed. Do not get in eyes. Avoid breathing dust or mist. Do not take internally.

Open drums slowly to vent. In case of skin or eye contact, flush with plenty of water. If irritation occurs, get medical aid. If swallowed, give large amounts of water. Do not induce vomiting. Get medical aid. Never give anything by mouth to an unconscious person. Remove contaminated shoes and clothing and wash before reuse. Personnel handling this product should be acquainted with its characteristics. Keep out of the reach of children. Consult MSDS for complete safety information.

## **ATTENTION:**

When empty, the container may still be hazardous. Because containers, even after they have been emptied, still retain product residues (vapor, liquid or solid), all labeled hazard precautions must be observed. If "emptied" product containers of 110 gallons or greater volume are to be shipped, DOT requires the containers be triple rinsed (or equivalent) to remove any residue and DOT placards be removed or covered with plain placards before they can be shipped as empty containers.

\*\*\*For more detail about product handling & safety info, please refer to the Material Safety Data Sheet\*\*\*