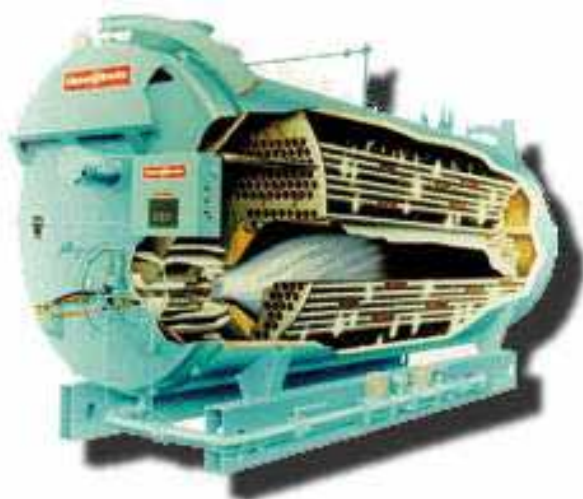




VpCI® FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

# S-15

## Total Replacement for Hydrazine Programs



### PRODUCT DESCRIPTION

S-15 is effective in controlling corrosion caused by oxygen and carbon dioxide in high and medium pressure boilers and condensate lines.

S-15 utilizes the combination of volatile neutralizing amines in conjunction with an oxygen scavenger – metal passivator. This combination improves corrosion control in two ways. First, any acidic species present are neutralized and the pH is increased, leading condensate to become less corrosive. Second, the oxygen scavenger/passivator reacts more rapidly in the alkaline conditions maintained by the amines in the S-15 than at lower pH levels found with conventional products.

S-15 provides excellent passivation, high volatility, thermal stability, and low toxicity.

S-15 does not leave solid residue in the boiler systems and helps to provide high quality steam.

### FEATURES

- Minimizes corrosion and deposits in medium and high pressure boiler systems
- Economical (recycled with the condensate)
- Compatible water treatment programs
- High efficiency against oxygen and carbon dioxide corrosion
- Thermally stable
- Low toxicity - doesn't contain any hydrazine-based compounds
- Easy to handle, feed, and formulate
- Passivates by converting hematite (soft red rust) to magnetite (hard black rust)
- Minimizes boiler rust deposits by reducing condensate corrosion
- Ideal for medium and high pressure boilers

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber to brown liquid
pH	11-12 (1% in water)
Odor	Amine-like
Density	8.1-8.2 lbs/gal (0.97-0.98 kg/l)
Solubility in water	Miscible

### DOSAGE INFORMATION

The dose should be adjusted to maintain the pH level between 8.0-8.5 and residual oxygen scavenger level. Usually it takes 2-5 ppm of continuous treatment.

### FEEDING INSTRUCTION

S-15 may be added separately to the dearator storage section, feedwater line, or by direct injection in the steam drum.



## PACKAGING AND STORAGE

S-15 is packaged in 5 gallon (19 liter) containers, 55 gallon (208 liter) metal drums, liquid totes, or bulk. Product should be stored in a tightly closed container. Shelf life is 12 months.

## FOR INDUSTRIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY CLOSED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT SAFETY DATA SHEET FOR MORE**

**INFORMATION**

### LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



Distributed by:

4119 White Bear Parkway, St. Paul, MN 55110 USA  
Phone (651) 429-1100, Fax (651) 429-1122  
Toll Free (800) 4-CORTEC, E-mail [info@corotecvc.com](mailto:info@corotecvc.com)  
Internet <http://www.corotecvc.com>

printed on recycled paper  100% post consumer  
Revised: 8/26/13, ©Cortec Corporation 2004-2013. Supersedes: 5/22/99  
2013, ©Cortec Corporation. All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited. ISO accreditation applies to Cortec's processes only.