

## DESCRIPTION

*HYDRAZIDE* is a liquid compound containing Carbohydrazide for rapid removal of free oxygen in any type of boiler of any pressure as well as any type of non-drainable superheater. *HYDRAZIDE* is the alternative for hazardous and potentially carcinogenic products and provides the advantages of an environmentally friendly and safe product.

The compound Carbohydrazide is a form of bounded Hydrazine that reacts with oxygen in the same way as normal Hydrazine would do. But Carbohydrazide has all the advantages of hydrazine and none of the disadvantages. According to the latest MARPOL regulations (waste annex) *HYDRAZIDE* is considered non-pollutant.

## APPLICATIONS

*HYDRAZIDE* is used for rapid removal of oxygen in boiler feed water and condensate systems. *HYDRAZIDE* further prevents corrosion caused by oxygen. *HYDRAZIDE* may be used in all types of boilers, but is particularly suited for use in High pressure boilers. *HYDRAZIDE* can be used as passivation in LAY-UP boilers.

## DIRECTIONS FOR USE

*HYDRAZIDE* must be added continuously because of the oxygen intake of the water that always occurs. The dosing preferably should be done with a dosing pump at the deaerator for a HP System. For a LP system the product can be dosed in the feed line. The amount of *HYDRAZIDE* that should be dosed depends on the amount of oxygen present in the boiler water. 22,5 ml/L of *HYDRAZIDE* will react with 1 mg/l oxygen in the water.

Because there are different types of water that can be used and a boiler can be mechanically de-gassed there can be different concentrations of oxygen in all boilers. Because of this given fact the stating dosage of *HYDRAZIDE* can be different with every boiler. The procedure to dose *HYDRAZIDE* is as follows:

- Add 22,5 ml *HYDRAZIDE* per 1000 liter boiler content.
- Measure the concentration of *HYDRAZINE* present in the water after circulating. (When the boiler water does not contain oxygen the *HYDRAZIDE* concentration should be 1 mg/l.)
- When there is no more *HYDRAZIDE* present in the boiler water repeat the first two steps until a concentration of 1 mg/l *HYDRAZIDE* is reached.

The concentration of *HYDRAZIDE* should be measured daily and should be between 0,8 and 1,5 mg/l.

*The analysis can be done using the Unimarine DEHA test-kit.*

**Code: 161162120**



## HYDRAZIDE

Oxygen Scavenger  
Direct replacement of Hydrazine

- Prevents corrosion
- Does not increase dissolved solids and adds minimal ammonium to the system
- Organic corrosion inhibitor and excellent passivator of metal surfaces
- Reduces corrosion in all pre-boiler condensate / feedwater system compounds
- Reduces chemical cleaning requirements

*HYDRAZIDE* can not be used in boilers where the produced steam comes in contact with food products.

For product characteristics and for the nature of special risks and safety advice consult our Material Safety Data Sheet.

**UNIClean**