

Azole Compounds As Corrosion Inhibitors Part I

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Azole Compounds As Corrosion Inhibitors

The inhibitory effect of 3-amino-1,2,4 triazole (I), 2-aminothiazole (II), and 3-amino-5-mercapto-1,2,4 triazole (III) on the corrosion of steel in 2 M HCl solution has been studied using chemical technique and electrochemical techniques.

Azole Compounds as Corrosion Inhibitors: Part I | SpringerLink

A new corrosion inhibitor, namely, 3,5-bis (2-thienyl)-4-amino-1,2,4-triazoles (2-TAT) has been synthesised and its inhibiting action on the corrosion of mild steel in acid baths (1 M HCl and 0.5...

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A composition for application to a metal substrate includes a metal cation, an azole compound, and an aqueous carrier. A composition for coating a substrate comprises an epoxy carrier, a urethane carrier, a carrier comprising a fluorinated urethane carrier, and an azole compound. The coated substrate includes a composition for application to a metal substrate and a coating on the composition.

JP2016512861A - Azole compounds as corrosion inhibitors

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Azole-based compounds, namely, N-azole, N&S-azole (i.e., thiazole), and N and O-azole (i.e., oxazole) molecules, as well as their derivatives, have shown an excellent ability to act as efficient corrosion inhibitors for different metals and alloys in various corrosive media.

Azole-Based Compounds as Corrosion Inhibitors for Metallic ...

According to embodiments of the present invention, a composition for application to a metal substrate comprises an aqueous carrier, an azole compound, and a metal cation corrosion inhibitor. In some embodiments, for example, the metal cation corrosion inhibitor may comprise a rare earth cation (such as, e.g., Ce, Y, or Nd), and/or a Group IA metal cation (such as, e.g., Li).

Azole Compounds as Corrosion Inhibitors - PRC- DeSoto

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The inhibitory effect of 3-amino-1,2,4 triazole (I), 2-aminothiazole (II), and 3-amino-5-mercapto-1,2,4 triazole (III) on the corrosion of steel in 2 M HCl solution has been studied using chemical technique and electrochemical techniques. The inhibition efficiencies (η) obtained from all the methods employed are in good agreement. Results reveal compound (III) to be the most efficient ...

Azole Compounds as Corrosion Inhibitors: Part I - NASA/ADS

The corrosion inhibition of two mercapto functional azole

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compounds including 2-mercaptobenzimidazole (MBI) and 2-mercaptobenzoxazole (MBO) for mild steel in 1 M NaCl solution was studied by electrochemical impedance spectroscopy (EIS), then their impact on the protective performance of a polyester-melamine coating was evaluated using salt spray.

Mercapto functional azole compounds as organic corrosion ...

Although benzotriazole and tolyltriazole are well known as extremely effective inhibitors of copper corrosion, very little has been reported in the literature regarding their chemistry, particularly in near neutral, low conductivity aqueous media.

The Chemistry of Azole Copper Corrosion Inhibitors in ...

benzotriazole and 1-(2-pyrrole carbonyl)-benzotriazole [11] are also investigated as copper corrosion inhibitors and the results indicate that they provide better quality and efficiency of protection. Other azole compounds are studied as copper corrosion inhibitors as well. Some of them are

Copper Corrosion Inhibitors. Period 2008-2014. A Review

The present invention relates to corrosion inhibiting compositions comprising a) a polyphosphate; and b) an azole, preferably a compound selected from the group consisting of C 2-C 12 alkyl or alkoxy benzotriazoles, mercaptobenzothiazole, tolyltriazole, benzotriazole, substituted benzotriazoles such as chlorobenzotriazole, nitrobenzotriazole, etc. and 1-phenyl-5-mercaptotetrazole, and salts ...

Polyphosphate/azole compositions and the use thereof as ...

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The parent compounds are aromatic and have two double bonds; there are successively reduced analogs (azolines and azolidines) with fewer. One, and only one, lone pair of electrons from each heteroatom in the ring is part of the aromatic bonding in an azole. Names of azoles maintain the prefix upon reduction (e.g., ...

Azole - Wikipedia

3. THE ORGANIC COPPER CORROSION INHIBITORS 3.1. Azoles
Azoles are organic compounds containing nitrogen atoms with free electron pairs that are potential sites for bonding with copper and that enable inhibiting action. Also, there is a possibility of

Copper Corrosion Inhibitors. A review

Corrosion Inhibitors are widely used in the protection of copper against corrosion in different corrosive media [13-17]. Azole compounds have nitrogen atoms, which coordinate with Cu(0), Cu(I)

Electrochemical and Gravimetric Study on the Corrosion and ...

Azole Based Corrosion Inhibitor is compounds that prevent copper and cu-alloys corrosion inhibition. These yellow metals are found in various processes heating and cooling application with different types of heat transfer fluids such as water, brine, glycol etc.

Azole Based Corrosion Inhibitor, Industrial Use, | ID ...

Wintrol® 38Na (Blended Azole – 38%) – “The Copper Bullet” is a unique “Superior Azole Mix” developed for yellow metal corrosion inhibitor for aqueous applications. It is an ideal product

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for use in cooling tower applications with high corrosive environments.

AZOLES - Copper Corrosion Inhibitors - Bio-Source Inc

Organic corrosion inhibitors are one of the five ways, besides material selection, design, cathodic protection and coatings, to protect materials against corrosion. Corrosion is an ubiquitous phenomena that deteriorates all materials, metals, plastics, glass and concrete. The costs of corrosion are tremendous and amounts to 4.0% of gross domestic product (GDP) in USA.

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