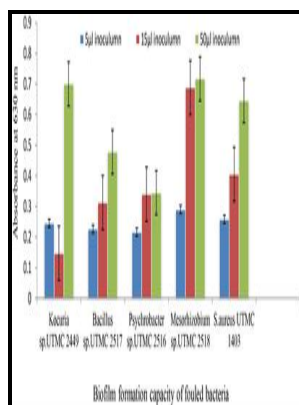# Inhibition of microbial colonization of shipboard fuel systems.

University of Aston. Department of Biological Sciences - Welcome to schülke US

Description: -
-Inhibition of microbial colonization of shipboard fuel systems.
-Inhibition of microbial colonization of shipboard fuel systems.
Notes: Thesis (Ph.D.) - University of Aston in Birmingham 1982.
This edition was published in 1982

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Tags: #Types #of #Aviation #Fuel

Frontiers

Antifouling coatings: Where do we go from here. Several preventive paints and coatings have been developed to prevent microbial adhesion. The Science Magazine News Blog.

British Library EThOS: Inhibition of microbial colonization of shipboard fuel systems

Biocides for the petroleum and gas mining industry should present a broad spectrum of activity for extended periods, good solubility in both water and hydrocarbons, and chemical and thermal stability, while being environmentally friendly, effective at concentrations below 100 ppm, and made from cheap and accessible materials. A typical biomass was found in some storage tanks, accompanied by an aqueous phase of low pH 3-5.

Microbial Cd(II) and Cr(VI) resistance mechanisms and application in bioremediation

The greatest gains in food transportation have come in the past 150 years and are primarily due to advances in transportation technology. Environmental considerations Biocides, by their nature, are toxic and may present a hazard to the fuel handlers, to personnel working in areas where fuel volatilization may occur and to organisms in the environment receiving wastes from the system. The resulting bacterial suspension was aliquoted 100 μL into the wells of a 96-well PVC microtiter plate.

IMO 2020 Compliant Fuels Require Increased Microbial Influenced Corrosion Care

Water is the elixir of life for both these types, with microbes requiring little to form colonies and expand. The composition varies with the origin of the oil; heavy crudes generally have high carbon, metal and asphaltene content and are less stable chemically than lighter crudes. Addition of concentrated HCl to a methanol solution 2 mL of the free base followed by solvent evaporation under reduced pressure delivered the corresponding 2-aminoimidazole as its HCl salt.

Microbial contamination and its control in fuels and fuel systems since 1980

Examples of pharmaceutically acceptable salts include sulfates, pyrosulfates, bisulfates, sulfites, bisulfites, phosphates, monohydrogenphosphates, dihydrogenphosphates, metaphosphates, pyrophosphates, chlorides, bromides, iodides, acetates, propionates, decanoates, caprylates, acrylates, formates, isobutyrates, caproates, heptanoates, propiolates, oxalates, malonates, succinates, suberates, sebacates, fumarates, maleates, butyne-1,4-dioates, hexyne-1,6-dioates, benzoates, chlorobenzoates, methylbenzoates, dinitrobenzoates, hydroxybenzoates, methoxybenzoates, phthalates, sulfonates, xylenesulfonates, phenylacetates, phenylpropionates, phenylbutyrates, citrates, lactates, γ-hydroxybutyrates, glycollates, tartrates, methane-sulfonates, propanesulfonates, naphthalene-1-sulfonates, naphthalene-2-sulfonates, and mandelates. Chromatography was performed using 60 Å mesh standard grade silica gel from Sorbtech Atlanta, Ga.

Fuel biocides

The quest for novel and environment friendly methods to prevent biofilm formation and to clean infected sites and materials may be a long-running one, as fossils of biofilms with more than 3 billion years old show the success of these microbial communities and their adaptability. Nevertheless, several bacterial strains with corrosion-protecting effects have been identified: Vibrio neocaledonicus reduced corrosion of ASTM A36 steel by 64-fold ; and Pseudomonas S9 and Serratia marcescens EF190 decreased corrosion of ASTM A619 carbon steel under aerobic conditions.

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