

Water Technologies & Solutions fact sheet

Butaclean* 4604

metal passivating agent

Butaclean 4604 is designed to:

- Control oxygen related corrosion in aqueous and aqueous/hydrocarbon systems
- Control polymerization due to free radical mechanisms in aqueous and aqueous/organic systems
- Passivate metal surfaces after cleaning
- Deactivate “popcorn polymer” (polybutadiene)

description and use

Butaclean 4604 is a water-soluble oxygen scavenger, and a free radical terminator. It is designed to minimize peroxide initiated polymer fouling and corrosion due to oxygen in process water systems and in unsaturated hydrocarbon/ aqueous contactors. Its primary use is as a passivator for metal surfaces after mechanical cleaning.

typical applications

Butaclean 4604 is specifically designed to be used in hydro-carbon/aqueous contactors of butadiene extraction/recovery units.

treatment

Proper treatment levels for Butaclean 4604 depend on many factors, including the severity of the problem, dissolved oxygen content of the stream, and conditions particular to a given system.

Assessment of these factors will aid your SUEZ representative in recommending treatment rates and control procedures specific to each application.

feeding

the shipping container or diluted to a convenient strength with good quality water. The product is typically diluted from 3 to 10% using condensate or boiler water.

Feed equipment should consist of a totally enclosed stainless steel and polyolefin day tank. Avoid using copper or copper bearing alloys.

Protect the product, storage containers, and feed systems from freezing.

For consistent effectiveness in passivating metal surfaces and deactivating popcorn polymer, Butaclean 4604 should be fed continuously by a chemical proportioning pump. It is usually added to the aqueous phase contributing oxygen contamination to the system.

DO NOT MIX with other process chemicals unless compatibility has been checked and approved by SUEZ Product Management.

evaluation

For best treatment performance, Butaclean 4604 treatment programs must be conscientiously monitored. Critical program data such as Butaclean 4604 dosage rates, system fouling and corrosion rates, oxygen analysis, and product residuals should be recorded on a regular basis, as well as visual inspection of equipment, whenever possible. SUEZ's treatment specialists will make ongoing treatment recommendations based on evaluation of the data.

safety precautions - typical properties

A Material Safety Data Sheet (MSDS) containing physical properties data and detailed safety information for this product is available by contacting your SUEZ representative.

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