

## Water Technologies & Solutions fact sheet

# Butaclean\* 4620

## polymerization inhibitor

Butaclean 4620 is designed to:

- Inhibit free radical polymerization fouling
- Decrease production losses
- Extend run lengths
- Reduce pressure drop constraints
- Increase efficiencies in heat transfer equipment and other process equipment

### description and use

Butaclean 4620 is a hydrocarbon soluble blend of chain terminators designed to inhibit free radical polymerization fouling in the presence or absence of oxygen.

Butaclean 4620 is most effective at stabilizing radicals in low oxygen environments and in the 100 to 120°C (212 to 224°F) temperature range.

Butaclean 4620 offers the additional advantage of being reactive in the vapor phase at temperatures in excess of 93°C (200°F) (1 atm). This specific reactivity is not found with other commonly used antioxidants. This added feature will improve performance underneath column trays and in reboilers where polymer can form in the vapor phase.

SUEZ also has the ability to run residual tests on Butaclean 4620.

### typical application

Butaclean 4620 is specifically designed to minimize polymerization and reduce fouling in diene purification plants, thereby protecting columns and reboilers.

### treatment

Proper treatment levels for Butaclean 4620 depend on

many factors such as the severity of the conditions particular to a given installation.

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

### feeding

Butaclean 4620 is typically fed neat, but can be diluted to a convenient strength with an appropriate solvent if necessary.

For consistent protection, Butaclean 4620 should be fed continuously by a chemical proportioning pump. Injection points should be as far upstream of the fouling locations as possible to assure maximum mixing and contact.

Avoid copper-bearing alloys in the feed system. Also avoid prolonged contact with PVC or fiberglass. Keep water out of the feed system.

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

### evaluation

For best treatment performance, the chemical program must be conscientiously evaluated by periodically recording critical unit parameters such as heat transfer, pressure drop, and equipment cleaning cycles.

### safety precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

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