

Water Technologies & Solutions
fact sheet**Butaclean* 4614**
polymerization inhibitor

Butaclean 4614 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 4614 is a hydrocarbon soluble chain terminator designed to inhibit free radical polymerization fouling initiated by heat induced radicals and/or peroxy radicals. It is effective at stabilizing radicals in the presence of oxygen and with temperatures ranging up to 120°C (248°F).

typical applications

Butaclean 4614 is a blend of antipolymerant and antioxidant specifically designed to minimize polymerization and reduce fouling in butadiene and isoprene extraction units.

treatment

Proper treatment levels for Butaclean 4614 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 4614 is typically fed neat, but can be diluted to a convenient strength with aromatic hydrocarbons, if necessary. For consistent protection, Butaclean 4614 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. Consult SUEZ's representative for proper injection location recommendations.

storage and handling

Butaclean 4614 can be stored either in 316SS, 304SS containers. It is compatible with Chlorobutyl, Viton** A, and Vitono Lithurge elastomers, as well as Teflon**, Halar***, polyethylene HDCL, Kynar****, and Nylon plastics.

Avoid exposure to low-grade metals and moisture because Butaclean 4614 will lose its efficacy.

This product is not water-soluble. 2% water exposure will result in cloudy product.

Should Butaclean 4614 be exposed to temperatures <-30°C (-20°F), it can be thawed and then mixed to ensure homogeneity. Additionally, prolonged high temperature storage will accelerate product degradation.

Any questions or concerns relative to the storage or compatibility of Butaclean 4614 should be addressed to SUEZ Product Management.

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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 - 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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