

# TECHNICAL DATA SHEET

## QUAKERCLEAN® 680 VDA SPRAY AND PROCESS CLEANER

QUAKERCLEAN® 680 VDA is specifically designed for low-residue and vacuum drying applications.

### Applications

QUAKERCLEAN® 680 VDA is formulated to dry rapidly without leaving unwanted visual residues behind. QUAKERCLEAN® 680 VDA cleans mild to moderate soil loads and protects ferrous and nonferrous surfaces while drying uniformly, leaving an imperceivable thin film of corrosion protection that can provide up to 60 days protection on metal surfaces when handled properly in controlled applications. This product is excellent for any application that requires minimal residue after the final wash and vacuum drying applications.

QUAKERCLEAN® 680 VDA's unique chemical engineering resists foaming even at high pressures and has good oil splitting characteristics to extend bath life, reduce consumption and improve overall operating costs.

### Customers

- Caterpillar
- Cummins
- Fiat Chrysler
- Automobiles
- General Motors
- John Deere
- Volvo

### Fluid Maintenance

This product can be used in one- or multi-stage spray and immersion systems as defined below.

SPRAY EQUIPMENT	
Concentration	3-5% by Volume
Temperature	Ambient to 140°F
Contact Time	Dependent on soil condition of part

### Benefits

- Versatile – Cleans mild to moderate soil loads and protects ferrous and nonferrous surfaces in one step simplifying operations and keeping inventory costs low
- Product can provide up to 60 days of corrosion protection to the metal surface when not rinsed, minimizes scrap which improves productivity
- Moderate pH and high worker compatibility
- Minimizes foam – No foam generation at temperatures up to 140°F in high pressure applications up to 3000 psi

### Health, Safety and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control – we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions. This product has a shelf life of 1 year, and it should be stored out of direct sunlight in temperatures between 40°F (4°C) and 110°F (43°C).

### Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance	Clear light yellow fluid	
Pounds per gallon at 60°F	8.9	lbs/gal
Neat pH	10.6	
Flash Point via COC	Boils at 100 / 212	°C/°F
Odor	Amine-like	



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### Seal Compatibility

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As a result of the fluids alkaline properties, there may be incompatibilities with some machine components. Seals that are tolerant to higher pH's that exhibit good chemical resistance should be utilized, such as Buna N, Viton or Teflon. For specific compatibilities with seals, please review with your Quaker Houghton Representative.

### Green Technology

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QUAKERCLEAN® 680 VDA does not contain any strong acids, strong alkalis, nonylphenol ethoxylates (NPEs), solvents, ozone depleting compounds, silicates, phosphates or chelating agents. QUAKERCLEAN® 680 VDA has a mild operating pH and is nonflammable and non-combustible. Effective cleaning at ambient temperatures reduces energy costs.

All reasonable care has been taken to ensure this publication is accurate upon issue. Such information may be affected by changes subsequent to issue. This Technical Data Sheet is to be used solely for this product. Prior to any use, consult the Safety Data Sheet (SDS) for information on hazard risks and product use parameters. All liability and all warranties express or implied are hereby excluded as to product performance results, the accuracy of these data including any warranty of merchantability or fitness for any purpose. 016084

