



PRODUCT DATA SHEET

PDS 660 TANK CLEANER

PRODUCT DESCRIPTION

PDS 660 is designed to be used in the following application, crude oil storage tanks. PDS 660 decreases downtime due to API-653 inspections of crude oil storage tanks. Shore based crude oil storage tanks can contain up to 1,000,000 bbl. of crude oil and are cleaned for inspection on 5 to 10-year cycles. During this time paraffin wax and asphaltene precipitate trapping water and inorganic sediment in an uneven profile on the tank floor. Bottom levels are typically 3 feet to 5 feet representing volumes of 2,000 bbl. to 20,000 bbl. of tank bottoms and in some cases much more. Effective storage capacity is reduced by the presence of these tank bottoms. Tank bottoms in general are only removed when the tank has a maintenance need planned or by emergency. Currently, conventional manual removal of tank bottoms is costly, hazardous, and time consuming often creating environmental and safety challenges. This results in difficulties in inventory, operations, and even procurement staffing.

PRODUCT BENEFITS

- Liquefies paraffin (milk shake consistency)
- Liquefies paraffin (hard pan consistency)
- Minimizes personal from entering tanks
- Greatly shortens the downtime to clean tanks
- Decreases costs to clean tanks by at least half

APPLICATIONS

PDS 660 is a chemical used in large crude oil storage tanks to liquefy paraffin bottoms that are considered to be milk shake consistency and hard pan consistency. Also helps to keep from putting personal inside these large tanks to clean and remove these types of tank bottoms.

HAZARDS

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressure, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition. "Empty;" drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. Avoid prolonged contact with skin and frequently change soiled clothing. In case of contact, wash thoroughly with soap and water for 15 minutes or until the irritation subsides. The formation of mists should be avoided. Do not take internally. If swallowed, do not induce vomiting. Call a physician or Poison Control Center immediately. Keep out of reach of children. Not recommended for "breathing air" or hydrocarbon oils.

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TECHNICAL DATA

TEST PROCEDURE

RESULTS (TYPICAL)

| Stock Code | PDS 660 | |
|------------------------------|---------|---------|
| ISO VG | D2422 | N/A |
| Viscosity 100°C, cSt | D445 | N/A |
| Viscosity 40°C, cSt | D445 | N/A |
| Viscosity 100°F, SUS | D445 | 85 |
| Viscosity 210°F, SUS | D445 | N/A |
| Auto-ignition temperature | D2270 | >430°F |
| Specific Gravity (g/ml) | D1298 | 0.732 |
| Density, (lb./gal) | D1298 | 6.11 |
| Color | D1500 | Clear |
| Flash Point, °C (°F) (COC) | D92 | -9 (15) |
| Fire Point, °C (°F) (COC) | D92 | N/A |
| Pour Point °C (°F) | D97 | N/A |
| Odor | | Mild |
| Texture | | N/A |
| Appearance | | Liquid |
| Biodegradable (inherently) * | | N/A |

*see Section IX of Safety Data Sheet

(A/16.6/90)

The values shown here are typical of current production. All of them may vary within modest ranges.

The information contained herein is accurate to the best of our knowledge at the time of printing. It is supplied upon the express condition that the customer or user is responsible for determining the product's suitability for a particular purpose. Products purchased from your local distributor are subject to the terms and conditions set out in the sales contract, quotation, warranty and/or order acknowledgement.

HEALTH AND SAFETY INFORMATION

For recommendations on safe handling and use of these products, please refer to the Safety Data Sheet (SDS), which is available upon request through your local distributor.

