

BIOACT ^{Ø*} VSO Precision Cleaner

Description BIOACT VSO Precision Cleaner is a blend of mixed aliphatic hydrocarbons. BIOACT VSO combines low odor and low toxicity with a high flash point (215°F). The product is an excellent alternative to petroleum naphthas such as mineral spirits in degreasing applications where flash point is important.

Applications BIOACT VSO is effective for applications such as auto parts degreasing, general equipment degreasing, handwipe applications, dip tank operations, in-process removal of oil and chips. BIOACT VSO effectively removes a wide range of soils such as rosin flux, asphalt, silicone sealant, COSMOLINE™, Silicone oils, grease, wax, fingerprint oil, mineral oil, buffing compounds, mold release agents, and cutting oil.

Process BIOACT VSO may be used in dip tank cleaning or manual cleaning.

Typical Dip Tank Process Steps

Steps	Process Details
1. Dip the parts in a tank of BIOACT VSO.	Use mechanical or ultrasonic agitation in the wash bath to speed the cleaning process. Remove the parts from the tank.
2. Rinse the residual BIOACT VSO and dissolved soil from the parts.	Dip in one or more successive circulating tanks of BIOACT VSO. Elevated temperatures in the rinse tanks enhance drainage and drying.
3. Dry the parts as necessary.	If drying assistance is required to remove the residual solvent from the parts, use any appropriate method: ambient air, oven, forced air, centrifugal force, hand wipe, or other. In approved systems that maintain vapor levels below the lower or above the upper explosive limits, isopropyl alcohol can be an effective rinsing/drying agent.

Typical Manual Cleaning Process Steps

Steps	Process Details
1. Apply BIOACT VSO	Use a sprayer, brush or rag.
2. Let stand	Allow the solvent to work for 2 to 20 minute. More time may be needed for difficult soils.
3. Remove with dry rag.	A water spray may be used to remove BIOACT VSO and dissolved soil.

- BIOACT is a registered trademark of Petroferm Inc.
- COSMOLINE is a trademark of E.F. Houghton & Co.

Typical Properties

Table 1.

Appearance	Transparent, light-colored, free-flowing liquid
Flash Point (Pensky-Martens Closed Cup)	215°F (102°C)
Specific Gravity @ 25°C	0.82
Viscosity @21°C	4.6 cps
Vapor Pressure @ 20°C	0.1 mm Hg
Kauri-Butanol (KB) Value	29
Odor	Mild hydrocarbon

Compatibility BIOACT VSO Precision Cleaner has been tested in a wide variety of equipment including ultrasonic immersion tanks, mechanically agitated immersion tanks, spray systems, forced air dryers and vacuum dryers. Contact your Petroferm representative for information on equipment and equipment manufacturers.

Environmental and Regulatory

Table 2.

Ozone Depletion Potential (ODP)	Zero
Global Warming Potential (GWP)	Low
Volatile Organic Content	820 g/l
Significant New Alternatives Program (SNAP)	Approved
Hazardous Air Pollutant (HAP)	No
National Emission Standards for Hazardous Air Pollutants (NESHAP)	Not regulated
Superfund Amendments and Reauthorization Act (SARA)	Not regulated
Resource Conservation and Recovery Act (RCRA)	Not regulated

Safety and Toxicity Please see the BIOACT VSO Material Safety Data Sheet for detailed information.

Disposal Petroferm recommends contacting your current or local environmental service company for disposal of this product. The usual method of disposal is fuel blending.

Packaging BIOACT VSO is available in 5-gallon pails and 55-gallon drums. Samples are available in one-quart and one-gallon containers.

Storage BIOACT VSO should be stored in the original container at temperatures below 120°F.

Shelf Life The shelf life for this product is indefinite when it is stored in its original, sealed container at recommended temperatures. However, the product should be inspected after the designated date on the product label (twenty-four months from the date of manufacture) prior to customer use.

Revised: February 2001

Petroferm Inc.
2416 Lynndale Road · Fernandina Beach, Florida 32034 · USA
Telephone: 904-261-8286 · Facsimile: 904-261-6994



www.petroferm.com

Petroferm products are available worldwide.

Technical information contained herein is believed to be accurate. However, it is furnished without charge or obligation and is given and accepted at recipient's sole risk. No guarantee of the accuracy of the information is made and the products discussed are sold without conditions or warranties expressed or implied. Purchasers should make their own tests and determine suitability of the product for their particular purposes. Nothing contained herein shall be considered a recommendation for any use that may infringe upon patent rights.