

# Federal Biobased Products Preferred Procurement Program (FB4P) Process for Industry Investigation

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## Designation Item

This section details the item that has been investigated for designation in the FB4P.

**Item Investigated:** 2 Cycle Engine Oil

**Item Description:** 2 Cycle engine oils represent that group of lubricant products formulated for use in two-cycle gasoline engines commonly found in lawn and garden equipment, small marine craft, and personal recreational vehicles such as motorcycles and snowmobiles. Products in this item provide clean-burning lubrication for small engines, decreasing spark plug fouling, reducing deposit formation and preventing engine wear. Biobased 2 cycle engine oils are typically formulated from natural soy, canola or other seed-based oil feed stocks and contain little to no hazardous ingredients.

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## Industry Investigation

There are four main sources of information used to gather data about items for designation. These include Internet search engines, the Thomas Register, industry associations, and biobased industry contacts. Each of these sources provides different results. The Internet search engines and the Thomas Register provide many results when a keyword is entered. However, when investigating products through the industry associations and biobased industry contacts, the results tend to be product or company specific. A lengthy, but thorough list of biobased companies which product the designation item can be developed best by utilizing all four information sources.

### Internet Search Engines

When searching the Internet, each search engine utilizes a different algorithm to find related topics. To maximize results and ensure correct data, keywords are entered into several search engines. Primary search engines include Google, Yahoo, WebCrawler and Meta Crawler.

Search Engine	Keywords	Results
Google	2 Cycle Engine Oil Engine Lubricants Small Engine Lubricants	<a href="http://www.citgo.com">www.citgo.com</a> <a href="http://www.rislone.com">www.rislone.com</a> <a href="http://www.sunoco.com">www.sunoco.com</a> <a href="http://www.shell-lubricants.com">www.shell-lubricants.com</a> <a href="http://www.stearnspkg.com">www.stearnspkg.com</a> <a href="http://www.littlewonder.com">www.littlewonder.com</a> <a href="http://www.royalpurple.com">www.royalpurple.com</a> <a href="http://www.dow.com">www.dow.com</a>
Vivisimo	See Previous	<a href="http://www.76lubricants.com">www.76lubricants.com</a> <a href="http://www.fuchs.com">www.fuchs.com</a> <a href="http://www.thebestoil.com">www.thebestoil.com</a> <a href="http://www.valvoline.com">www.valvoline.com</a> <a href="http://www.torcoracingoils.com">www.torcoracingoils.com</a>
Alta Vista	See Previous	<a href="http://www.nelsonmotorsports.com">www.nelsonmotorsports.com</a> <a href="http://www.lubricationproducts.com">www.lubricationproducts.com</a> <a href="http://www.cenex.com">www.cenex.com</a>

## Thomas Register

The Thomas Register, a free web service found at <http://www.thomasregister.com/>, provides a database of over 173,000 companies that can be searched by company name, product name or keyword. Each result contains contact information and may also include other useful information such as a product catalog.

Keyword	Results
2 Cycle Engine Oil	<a href="http://www.mobil.com">www.mobil.com</a> <a href="http://www.daubertchemical.com">www.daubertchemical.com</a> <a href="http://www.vaghninc.com">www.vaghninc.com</a> <a href="http://www.petro-canada.com">www.petro-canada.com</a> <a href="http://www.aerospacelubricants.com">www.aerospacelubricants.com</a> Acculube
Engine Lubricants	<a href="http://www.mooreballiewoil.com">www.mooreballiewoil.com</a> Tufoil – Fluoramics Inc. <a href="http://www.hkoil.com">www.hkoil.com</a>
Small Engine Lubricants	Independence Lubricants Co. Anderol Co. <a href="http://www.speclubes.com">www.speclubes.com</a> <a href="http://www.huskey.com">www.huskey.com</a> <a href="http://www.ppclubricants.com">www.ppclubricants.com</a> <a href="http://www.lubeoils.com">www.lubeoils.com</a>

## Industry Associations

Industry associations provide a good source to identify potential manufacturers, determine additional keywords for internet searches, and provide general descriptions of products within an item. Many associations maintain official websites with lists of member organizations and in some cases catalogs of available products.

Association Investigated / Contacted	Results
Marine Business Journal American Petroleum Institute Independent Lubricants Manufacturers Association Biobased Manufacturers Association United Soybean Board National Marine Manufacturers Association	<a href="http://www.cognis-us.com">www.cognis-us.com</a> <a href="http://www.agromgt.com">www.agromgt.com</a> <a href="http://www.lubegard.com">www.lubegard.com</a> <a href="http://www.sterlingbiotech.com">www.sterlingbiotech.com</a>

## Biobased Company Contacts

Company contacts come as a result of interaction with government officials, researchers, and industry representatives. FB4P staff follow-up on personal referrals or potential leads to possible biobased products.

Company	Contact Person	Results
Cargill Industrial Oils & Lubricants	Luis Del Valle	BioImproved 2-Cycle Oil

Environmental Lubricants Manufacturing Inc.	Gene Tripp	Soy2Stroke Premium Soy2Stroke Super
Renewable Lubricants Inc.	Jacqueline Garmier	Bio-TC-W3 2-Cycle Engine Oil
Terresolve Technologies	Mark Miller	AquaLogic 450 EnviroLogic 440

## Conclusion

The results from the four information sources indicate that 11 manufacturing companies in the United States are currently producing 2 Cycle Engine Oils that may be considered for inclusion in the Federal Biobased Products Preferred Procurement Program.