

USDA BioPreferredSM Process for Industry Investigation

Designation Item

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

Item Investigated: Corrosion Preventatives

Item Description: Products designed to prevent the deterioration (corrosion) of metals.

Industry Investigation

There are eight main sources of information used to gather data about items for designation. These include Internet search engines, the Thomas Register, industry associations, GSA and DLA federal specifications search engines, Javits-Wagner-O'Day Act, Green Seal standards, and biobased industry contacts. Each of these sources provides different results. A lengthy, but thorough list of biobased companies which produce the designation item and performance standards and test methods related to the designation item can be developed best by utilizing all 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, MSN, Alta Vista, and Yahoo.

Search Engine	Keyword	Results
Google	Biobased Corrosion Preventatives Corrosion Preventatives	http://www.renewablelube.com/products/biocorrosion.htm http://www.cortecvci.com/index2.php http://www.orisonmarketing.com/lubricants/lubricants.html http://www.carbohydrateeconomy.org/library/admin/uploadedfiles/showfile.cfm?FileName=Carbohydrate_Economy_Bulletin_Volume_1_Number_.htm http://www.cargill.com/news/news_releases/2003/030410_tractor.htm http://www.kokogm.com/Products/bk-00099.html http://www.magnalabs.com/corrosionXfacts.htm http://www.bry-air.com/applications/corrosion_prevention/default.html http://www.sanchem.com/safeguard_uses.html http://www.corrosionvci.com/VCI/noxrust.html http://www.lycoming.textron.com/main.jsp?bodyPage=/productSales/w hatsNew/corrosionPreventative/index.html
MSN	See Previous	http://www.globalcontactinc.com/media/USDIR/INDEXP&S.pdf http://www.einet.net/directory/38752/Chemicals_and_Allied_Products.htm http://www.arizonachemical.com/products/productgroups.asp?frmProductGroup=0%7CAhesive%2C+Oleochemical%2C+Ink%2C+Coating%2C+Gellant http://www.cortecvci.com/Products/products.php http://www.imet.net/corrosion.htm http://www.renewablelube.com/products/biocorrosion.htm

		http://www.americanpaper.com/daubert.html http://www.parisho.com/rust-pre.htm http://www.silmid.com/products/index.asp?product=SUR http://www.swimpreglon.us/corrosion.html http://www.fuchslubricants.com/ind_sectors.php?s=cp http://www.dunbarsales.com/catalog/index.php?cso=1&cs=Corrosion%20Preventative%20Compounds http://www.jsamc2.com/specialty/rust_preventatives.php http://www.chemetall.com.au/?pid=90 http://www.tool-products.com/qualichem.html http://www.etna.com/steelhide.html http://www.additiv-chemie.com/EnglischVersion/koradditive.html http://www.qualichem.com/metalworking.html http://www.daubertvci.com/CompanyProfile.asp http://www.bilthamber.com/ http://www.knovel.com/knovel2/Toc.jsp?BookID=404 http://www.hubbardhall.com/hbhall/pages/metalchild.jsp?id=82 http://www.ritekem.com/corrosion%20preventatives%20and%20preservatives.html
Alta Vista	See Previous	http://www.renewablelube.com/products/biocorrosion.htm http://www.martfoundation.org/photos/?lubricants/ http://www.tribotesters.net/tribology/metalworking_fluids.php http://www.gallaxy.com/directory/38752/ http://www.arizonachemical.com/products/applications.asp?frmApplication=42 Metal+Working http://www.cortecvci.com/whats_new/pdfs/Cortec_Edge_5_02.pdf http://www.auri.org/news/ainapr04/08cortec.htm http://www.energy.state.md.us/programs/residential/conference/lippiatt.pdf http://recefil.com/c/lubricants.htm?refID=12
Yahoo	See Previous	http://www.martfoundation.org/photos/?lubricants/ http://www.tribotesters.net/tribology/metalworking_fluids.php http://www.auri.org/news/ainapr04/08cortec.htm http://www.gallaxy.com/directory/38752/ http://www.arizonachemical.com/products/applications.asp?frmApplication=42 Metal http://www.cortecvci.com/Products/products.php?showonly=OilGasProc http://www.renewablelube.com/products/biocorrosion.htm http://www.bakerhughes.com/bakerpetrolite/additives/component/products_corrosion.htm http://www.daubertvci.com/CompanyProfile.asp http://www.interlubecorporation.com/rust.asp http://www.qualichem.com/metalworking.html http://www.hubbardhall.com/hbhall/pages/metalchild.jsp?id=82 http://www.ritekem.com/corrosion%20preventatives%20and%20preservatives.html

Thomas Register – (<http://www.thomasregister.com/>)

The Thomas Register, a free web service, 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
Biobased Corrosion Preventatives	http://www.chem-pak.com/industrial/ind_rust.htm http://www.thomasregister.com/olc/11157203/ http://www.hbind.com/
Corrosion Preventatives	http://www.noco.biz/catalogindex.tpl

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	Results
Biobased Manufacturers Association United Soybean Board Biomass Energy Research Association National Association of Corrosion Engineers Independent Lubricant Manufacturers Association Concrete Corrosion Inhibitors Association	http://www.bera1.org/klass-inter-oral%20OIT%2004.html

General Services Administration – Federal Specifications Search (<http://apps.fss.gsa.gov/pub/fedspeccs/search.cfm>)

This search lists commercial item and federal specifications for different products.

Keyword	Results	
Biobased Corrosion Preventatives	No Results	
Corrosion Preventatives	No Results	

Defense Logistics Agency – ASSIST-Basic Search (http://www.assistdocs.com/search/search_basic.cfm)

This search lists military, federal, and commercial item specifications.

Keyword	Results	
Biobased Corrosion Preventatives	No results found	
Corrosion Preventatives	MIL-L-46811B	LUBRICATION OF GROUND HANDLING, LAUNCHING AND CONTROL EQUIPMENT FOR GUIDED MISSILES
	MIL-S-82849	SWITCH, ARM ENABLE, ROCKET MOTOR MK 104 (NO S/S DOCUMENT)
	MIL-C-10578D	CORROSION REMOVING AND METAL CONDITIONING COMPOUND (PHOSPHORIC ACID

	BASE)
MIL-STD-361-10	MANUALS, TECHNICAL: LUBRICATION INSTRUCTIONS (S/S MIL-STD-40051)
BB-A-1034B	COMPRESSED AIR, BREATHING
TT-C-490E	CHEMICAL CONVERSION COATINGS AND PRETREATMENTS FOR FERROUS SURFACES (BASE FOR ORGANIC COATINGS)
MIL-PRF-81309F	CORROSION PREVENTIVE COMPOUNDS, WATER DISPLACING, ULTRA-THIN FILM
MIL-W-81560	WEAPON, BIOLOGICAL AND CHEMICAL. GENERAL DESIGN SPECIFICATION FOR (NO S/S DOCUMENT)
MIL-T-740G	TRUCKS; 5 TON, 6X6, MILITARY DESIGN, M39, M39A1, M39A2 AND M809 SERIES
MIL-T-21737E	TRUCK, FIREFIGHTING; AIRCRAFT & PERSONNEL RESCUE, WATER & FOAM DISPENSING, 1,000-GALLON WATER CAPACITY (NO S/S DOCUMENT)
MIL-M-8555C	MISSILE, GUIDED, DESIGN AND CONSTRUCTION, GENERAL SPECIFICATION FOR (NO S/S DOCUMENT)
MIL-HDBK-1222C	GUIDE TO THE GENERAL STYLE AND FORMAT OF U.S. ARMY WORK PACKAGE TECHNICAL MANUALS
MIL-HDBK-201B	PETROLEUM OPERATIONS
MIL-STD-3001-1	PREPARATION OF DIGITAL TECHNICAL INFORMATION FOR MULTI-OUTPUT PRESENTATION OF TECHNICAL MANUALS (PART 1 OF 8 PARTS)
MIL-HDBK-3001	GUIDE TO THE GENERAL STYLE AND FORMAT OF U.S. NAVY WORK PACKAGE TECHNICAL MANUALS
MIL-HDBK-132A	PROTECTIVE FINISHES FOR METAL AND WOOD SURFACES (NO S/S DOCUMENT)
JSSG-2010-12	CREW SYSTEMS DEPLOYABLE AERODYNAMIC DECELERATOR (DAD) SYSTEMS HANDBOOK
MIL-HDBK-407	CONTAMINATION CONTROL TECHNOLOGY PRECISION

		CLEANING METHODS AND PROCEDURES
	MIL-STD-40002	HEAT TREATMENT CODING SYSTEM, GENERAL (NO S/S DOCUMENT)

JWOD.com – Javits-Wagner-O’Day Act (<http://www.jwod.com>)

Products available for sale through JWOD.com are primarily items provided to the Federal Government under the Javits-Wagner-O’Day Act, JWOD, a mandatory source of supply for all Federal government employees. These products are manufactured by nonprofit agencies throughout the United States that employ people who are blind or have other severe disabilities.

Keyword	Results
Biobased Corrosion Preventatives	No Results
Corrosion Preventatives	No Results

Green Seal Environmental Standards – (<http://www.greenseal.org/>)

Green Seal develops environmental certification standards for specific product categories and certifies products and services that meet them.

Standard Number	Standard Title
GC-03	Anti-Corrosive Paint

Company	Products
V.ABC Paints Manufacturing (Shenzhen) Co., Ltd.	Rust Buster Primer Coating Water-based Zinc Rich Primer (2 pack) Water-based Epoxy Middle Coating (2 pack) Water-based Acrylic Top Coating

Biobased Company Contacts

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

Company	Contact Person	Results
Renewable Lubricants, Inc.	Mrs. Jaqueline Garmier	Bio-Cleaning Compound/Corrosion Inhibitor/BC, Bio-Corrosion Inhibitor (BCI) & Bio-Volatile Inhibitor (BVCI) Products, Bio-Water Emulsifiable Corrosion Inhibitor, Bio-Volatile Corrosion Inhibitors (BVCI Ultra Thin Film), Bio-Medium Preservative Lubricant
Desilube Technology, Inc.	Dr. James King	Desigreen Penetrant
Cortec Corporation	Mr. Bob Boyle	MCI 2005, MCI 2005-NS, VpCI-422, M-660 OCTG, VpCI-325, VpCI 705 Bio, S-14 Bio, EcoLine Heavy Duty Grease, EcoLine Long Term Rust Preventative

BioSpan Technologies, Inc.	Mr. Sheldon Chesky	BR 3600 Bed Release Agent, CR 3600 Corrosion Protectant
Northern Technologies International Corporation	Mr. Vineet Dalal	ICT730-GFA Biodegradable Corrosion Preventative Oil

Conclusion

The results from the eight information sources indicate that 15 manufacturing companies in the United States are currently producing Corrosion Preventatives that may be considered for inclusion in the BioPreferred Program.