USDA BioPreferred[SM]
Process for Industry Investigation

Designation Item

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

Item Investigated: Heat Transfer Fluids

Item Description: Products with high thermal capacities used to facilitate the transfer of heat from one location to another, including coolants or refrigerants for use in HVAC applications, internal combustion engines, personal cooling devices, thermal energy storage, or other heating or cooling closed-loops.

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, AbilityOne, 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.

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
Dow Corning		DOW CORNING(R) Q1-6083 ANTIFREEZE ADDITIVE
Dynalene	Dan Loikits	Dynalene HF Heat Transfer Fluid
		Dynalene MV Heat Transfer Fluid
Glacier Tek, Inc.	Ray Booska	RPCM™ Cool Vest
Orison Marketing, L.L.C.	Shawn McGlothlin	IceClear PGX, IceClear® AF

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, Dogpile, Mamma, and Yahoo.

Search Engine	Keyword	Results
Google	Biobased Heat Transfer Fluids	http://bp.cfans.umn.edu/courses/bp4313-5313.php http://www.fortum.com/news_section_item.asp?path=14022;14024;14026;25730;551;16877 http://p2library.nfesc.navy.mil/presentations/farmbill02.ppt http://industrial-lubricants.globalspec.com/Industrial-Directory/natural_oils http://www.energy2003.ee.doe.gov/presentations/acquisition/5-buckhalt2.pdf#search=%22biobased%20heat%20transfer%20fluids%22 http://www1.coafes.umn.edu/faculty/query.asp?kw=law

		http://www.agmrc.org/agmrc/directories/otherdir/bioproductsdegrees.htm http://www.biobased.oce.usda.gov/files/CTC_Sourcebook_Report_to_USDA-2002_6-18-03.pdf#search=%22biobased%20heat%20transfer%20fluids%22 http://www.biobased.oce.usda.gov/files/CTC_Sourcebook_Report_to_USDA-2002_6-18-03.pdf#search=%22biobased%20heat%20transfer%20fluids%22 http://www.msu.edu/~vprgs/RNwinter2001/Lloyd.htm http://catalog.oregonstate.edu/OptionDetail.aspx?id=148 http://www.alibaba.com/manufacture/100102c6pthf/Lubricant.html http://engineering.uoit.ca/research/facilities.php http://www.nrel.gov/biomass/proj_renew_efficient.html http://www.mme.wsu.edu/people/faculty/ http://web.mit.edu/12.000/www/m2008/teams/lasiguanas/Extended_Energy_Research.html http://www.me.iastate.edu/rcbrown/right.htm http://www.nrel.gov/docs/fy05osti/35607.pdf http://www.fedcenter.gov/news/regs/futurebydate/
	Heat Transfer Fluids	http://www.dow.com/heattrans/index.htm http://www.paratherm.com/ http://www.paratherm.com/heat_transfer_fluids.asp http://www.dynalene.com/ http://www.therminol.com/pages/ http://www.asmeconferences.org/htfed04/ http://www.radcoind.com/ http://www.efunda.com/formulae/heat_transfer/home/overview.cfm http://www.daviddarling.info/encyclopedia/H/AE_heat_transfer_fluid.html http://solutions.3m.com/wps/portal/!ut/p/kcxml/04_Sj9SPykssy0xPLMnMz0vM0Q9KzYsPDdaP0I8yizeIN_T00C_IcFQEAEUftMQ! http://materials.globalspec.com/LearnMore/Materials_Chemicals_Adhesives/Industrial_Oils_Fluids/Heat_Transfer_Fluids http://materials.globalspec.com/ProductFinder/Materials_Chemicals_Adhesives/Industrial_Oils_Fluids http://www.chemindustry.com/chemnames/h/heat_transfer_fluid.html http://www.dow.com/polyglycols/ucon/products/heat.htm http://www.eere.energy.gov/consumer/your_home/water_heating/index.cfm/mytopic=12940 http://www2.ing.unipi.it/exhft5/ http://www.radcoind.com/home.html http://www.shell-lubricants.com/products/product_list.php?subcatid=52 http://www.thomasnet.com/products/chillers-heat-transfer-fluid-13942164-1.html http://sbir.gsfc.nasa.gov/SBIR/abstracts/04/sbir/phase1/SBIR-04-1-E1.07-9391.html
	Biobased Transfer Fluids	http://bp.cfans.umn.edu/undergrad/transfer_bpe.pdf#search=%22biobased%20transfer%20fluids%22 http://www.fortum.com/news_section_item.asp?path=14022;14024;14026;25730;551;16877 http://www.nrel.gov/biomass/proj_renew_efficient.html http://industrial-lubricants.globalspec.com/Industrial-Directory/natural_oils http://p2library.nfesc.navy.mil/presentations/farmbill02.ppt http://www.energy2003.ee.doe.gov/presentations/acquisition/5-buckhalt2.pdf#search=%22biobased%20transfer%20fluids%22 http://www.energy2003.ee.doe.gov/presentations/acquisition/5-buckhalt2.pdf#search=%22biobased%20transfer%20fluids%22

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	Engine Coolant	http://www.diynetwork.com/diy/en_maintenance/article/0,2021,DIY_13808_2270919,00.html http://wiki.answers.com/Q/FAQ/530 http://bioengr.ag.utk.edu/Extension/ExtProg/machinery/Articles/engcool.htm http://en.wikipedia.org/wiki/Antifreeze http://www.samarins.com/maintenance/simple.html http://www.amsoil.com/StoreFront/ant.aspx http://www.techguys.ca/howto/coolant_flush.html http://www.rec1050.com/ http://www.evanscooling.com/ http://www.halfords.com/webapp/wcs/stores/servlet/product_storeId_10001_catalogId_10651_productId_167558_langId_-1_p1_38270_p2_31276 http://www.constructionequipment.com/article/CA6256027.html

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Dogpile	Biobased Heat Transfer Fluids	http://www.heat-transfer-fluid.com/ http://www.astm.org/SNEWS/SEPTEMBER_2004/actd_sep04.html http://www.paratherm.com/tipsheets/tipsheet_fluid_analysis_scheduling.asp?gclid=CP7E9Jnw8YcCFQ23WAod6QtWCA http://www.renewablelube.com/products/biocorrosion.htm http://www.ofee.gov/eo/2002farmbill.ppt http://www.processengr.com/links/biofuel_links.html http://www.radcoind.com/ http://www.doi.gov/greening/biobased_rule.htm http://www.alltheindustrials.com/search.aspx?q=Heat%20Transfer%20Fluids&rd=1&brand= http://www.orisonmarketing.com/products/products.html http://www.arizonachemical.com/products/productgroups.asp?frmProductGroup=6%7CEster%20Products http://www.dealtime.com/xGS-Heat_Transfers~NS-1~linkin_id-8001496 http://www.virtualpet.com/portals/okenergy/okenergy.htm http://www.shopping.com/xGS-Heat_Transfers~NS-1~linkin_id-8001496 http://procscieng.pnl.gov/awards.asp http://www.msu.edu/unit/vprgs/RNwinter2001/Lloyd.htm http://www.chemicalonline.com/BuyersGuide/CompanyProfile.asp?CoID=39427&VNETCOOKIE=NO http://www.proworldinc.com/iron_on_transfers.aspx?source=ask http://bp.cfans.umn.edu/courses/bp4313-5313.php
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Yahoo	Biobased	http://www.doi.gov/greening/biobased_rule.htm

	Heat Transfer Fluids	http://www.msu.edu/unit/vprgs/RNwinter2001/Lloyd.htm http://www.sustainablebusiness.com/features/feature_template.cfm?ID=1104 http://gcep.stanford.edu/pdfs/solar_workshop_10_04/SolarMoens2004.pdf#search='biobased%20heat%20transfer%20fluids' http://www.renewablelube.com/products/biocorrosion.htm http://www.gao.gov/htext/d04437.html http://www.asabe.org/imis/StaticContent/3/jan03/power.html http://www.dsireusa.org/library/includes/map.cfm?State=WI&CurrentPageId=1&RE=1&EE=0 http://p2library.nfesc.navy.mil/presentations/farmbill02.ppt http://www.processengr.com/links/biofuel_links.html http://www.orisonllc.com/lubricants/lubricants.html http://www.ars.usda.gov/aboutus/docs.htm?docid=8772&page=3 http://www.unitedsoybean.org/lib_bbs_printable.cfm?id=31 http://www.energy2003.ee.doe.gov/presentations/acquisition/5-buckhalt.pdf#search='biobased%20heat%20transfer%20fluids' http://sbir.er.doe.gov/sbir/Solicitations/FY%202001/EE.htm http://www.fedcenter.gov/_kd/go.cfm?destination=Page&pge_id=2458 http://web.mit.edu/12.000/www/m2008/teams/lasiguanas/Extended_Energy_Research.html http://www.arizonachemical.com/products/productgroups.asp?frmProductGroup=6|Ester+Products http://www.wtsn.binghamton.edu/Coned/EP06Instructors.htm http://www.sciencedaily.com/releases/2005/02/050225105259.htm
	Heat Transfer Fluids	http://www.dow.com/heattrans/ http://www.heat-transfer-fluid.com/ http://www.paratherm.com/heat_transfer_fluids.asp http://www.multitherm.com/ http://www.dow.com/polyglycols/ucon/products/heat.htm http://www.paratherm.com/ http://www.radcoind.com/ http://www.therminol.com/pages/ http://www.tfsheat.com/Thermal%20Fluids1.htm http://www.eere.energy.gov/consumer/your_home/water_heating/index.cfm/mytopic=12940 http://www.dynalene.com/ http://www.additivesinc.com/heattransferfluids.html http://www.houghton.com/fluids/index.html http://en.wikipedia.org/wiki/Heat_transfer http://symp15.nist.gov/pdf/p711.pdf#search='heat%20transfer%20fluids' http://www.daviddarling.info/encyclopedia/H/AE_heat_transfer_fluid.html http://www.therminol.com/pages/region/na/default.asp http://www.radcoind.com/TechTips1.html http://www.petro-canada.ca/eng/prodserv/specialtyfluids/6941.htm http://www.heat-transfer-fluid.com/abouthtf/
	Biobased Transfer Fluids	http://www.nfpa.com/Education/PDF/University%20of%20Northern%20Iowa%20II.pdf#search='biobased%20transfer%20fluids' http://www.ars.usda.gov/research/themes/biopande.htm?special_code=BPMS031&PT=Biobased+Products http://www.doi.gov/greening/biobased_rule.htm http://www.eh.doe.gov/p2/epp/biobased.pdf#search='biobased%20transfer%20fluids' http://www.ars.usda.gov/SP2UserFiles/Place/36200000/Estolides_flyer.pdf#sea

		rch='biobased%20transfer%20fluids' http://www.machinerylubrication.com/article_detail.asp?articleid=240&relatedbookgroup=PowerGen http://www.eere.energy.gov/femp/newsevents/fempfocus_article.cfm/news_id=8308 http://www.bioenergycolorado.com/BioEnergy_DOE_web_stuff.htm http://www.dtic.mil/ndia/2003environ/miller1.pdf#search='biobased%20transfer%20fluids' http://www.gao.gov/htext/d04437.html http://www.arizonachemical.com/products/productgroups.asp?frmProductGroup=6|Ester+Products http://www.asabe.org/imis/StaticContent/3/jan03/power.html http://www.sustainablebusiness.com/features/feature_template.cfm?ID=1104 http://grouper.ieee.org/groups/transformers/info/F03/F03-EsterFluids.pdf#search='biobased%20transfer%20fluids' http://www.epa.gov/lab21gov/conf/past/2004/abstracts/posters/poster_cannon.htm http://gcep.stanford.edu/pdfs/solar_workshop_10_04/SolarMoens2004.pdf#search='biobased%20transfer%20fluids' http://www.dsireusa.org/library/includes/map.cfm?State=WI&CurrentPageId=1&RE=1&EE=0 http://www.dlis.dla.mil/green/ppt/farmbill2002.ppt http://www.public.iastate.edu/~krystajo/PublicRelations/FB4P_POY.pdf#search='biobased%20transfer%20fluids' http://www.oznet.ksu.edu/pr_apuf/PDF/Bailey.pdf#search='biobased%20transfer%20fluids'
	Biobased Coolants	http://www.biobased.us/biobased.html http://www.biobased.org/tnstate/ppt/BMAPresentation.ppt http://www.biobased.org/list2.php?storyid=8476 http://www.biobased.us/tfd/bma/allvendorse28f.html?dept=b4 http://www.elmusa.com/ http://www.doi.gov/greening/biobased_rule.htm http://www.doi.gov/greening/bureaus/usgsattach3.html http://www.epa.gov/fedrgstr/EPA-IMPACT/2006/August/Day-17/i6920.htm https://www.eh.doe.gov/p2/ap/APPandEPPforPurchaseCards0205Rev.ppt http://www.washingtonwatchdog.org/documents/fr/03/de/19/fr19de03-16.html http://www.drms.dla.mil/environmental/epa/EPA_Resource/Affirmative_Procurement/aptrain.ppt http://p2library.nfesc.navy.mil/Fact_Sheets/DSDATA/sortbysection.html http://www.dlis.dla.mil/green/ppt/farmbill2002.ppt http://www.p2pays.org/ref/26/25112.pdf#search='biobased%20coolants' http://edocket.access.gpo.gov/2006/06-6920.htm http://www.richcatt.com/Site/Welcome.html http://rds.yahoo.com/_ylt=A0geuunzZC1FkUwBkK5XNyoA;_ylu=X3oDMTE3MHFsdWxzBGNvbG8DZQRsA1dTMQRwb3MDMTcEc2VjA3NyBHZ0aWQDQ1MwMV83Mg--/SIG=1350ss657/EXP=1160689267/**http%3a//chppm-www.apgea.army.mil/GWSWP/SolidWaste/Credit%2520Card%2520Training.pps http://www.usace.army.mil/publications/eng-pamphlets/ep200-1-10/a-e.pdf http://www.er.doe.gov/epic/docs/Environmentally%20Preferable%20Purchasing.pdf#search='biobased%20coolants' http://p2library.nfesc.navy.mil/Fact_Sheets/DSDATA/otherfed.html
	Biobased	http://www.oikos.com/news/2000/08.html

	Refrigerants	http://www.ars.usda.gov/News/docs.htm?docid=10712&pf=1&cg_id=0 http://www.eere.energy.gov/femp/highperformance/materials.cfm?ProjectID=345 http://www.ris.org.in/article4_v10n1&2.pdf http://www.hss.energy.gov/pp/epp/definitions.html http://www.ndu.edu/inss/DefHor/DH20/DH_20.htm http://www.sustainablebusiness.com/features/feature_template.cfm?ID=1282&page=4 http://www.usda.gov/procurement/card/card_x/Buy_Green_PCard_Training.pdf http://www.wbdg.org/ccb/DOD/UFGS/UFGS 23 81 23.00 20.pdf http://www.usda.gov/procurement/card/card_x/Buy_Green_PCard_Training.doc http://www.contracttextiles.org/pdf/green gloss.pdf http://www.ofee.gov/gp/FASGreenPurchasingPlanResourceGuide2008.pdf http://www.wbdg.org/ccb/DOD/UFGS/UFGS 23 81 00.00 20.pdf http://www.fien.com/CustomerComments/lists.htm http://www.epa.gov/rtp/new-bldg/environmental/018113.pdf http://www.buildings.com/articles/detail.aspx?ContentID=666 http://www.asu.edu/aad/manuals/pur/pur210.html http://www.ofee.gov/ctc/ctcsum03.pdf http://www.access.gpo.gov/su_docs/fedreg/a050111c.html http://www.buildinggreen.com/regreen/ReGreen_ResGuidelines_StratLibrary.pdf
	Antifreeze	http://en.wikipedia.org/wiki/Antifreeze http://www.macromusic.com/Antifreeze/ http://www.antifreezeonline.com/ http://www.cah.com/dr_library/antifreeze.html http://www.hsus.org/pets/pet_care/antifreeze.html http://www.epa.gov/msw/antifree.htm http://www.eetcorp.com/antifreeze/antifreeze-faq.htm http://www.vetmed.wsu.edu/ClientED/antifreeze.asp http://www.epa.gov/region09/waste/p2/autofleet/antifreeze.pdf http://www.thefreedictionary.com/antifreeze http://www.antifreeze.com/ http://www.antifreeze-recycler.com/index.html http://www.deq.louisiana.gov/portal/tabid/2070/Default.aspx http://www.greentruck.com/waste/antifreeze/1102.html http://www.mass.gov/dep/recycle/hazardous/antifree.htm http://autorepair.about.com/library/glossary/bldef-033.htm http://www.sierraantifreeze.com/benefit.html http://www.ecy.wa.gov/pubs/0304017.pdf http://www.state.sd.us/denr/des/wastemgn/Recycling/Antifreeze.htm http://www.kungfurecords.com/html/antifreeze.shtml
	Engine Coolant	http://www.waynesgarage.com/docs/engine_coolant.htm http://en.wikipedia.org/wiki/Antifreeze_(coolant) http://www.evanscooling.com/ http://www.evanscooling.com/ http://www.amsoil.com/storefront/ant.aspx http://www.blauparts.com/audi/audi_fluid/audi_coolant_engine_fluid.shtml http://silverstone.fortunecity.com/ferrari/464/engine_coolant.htm http://www.engine-cooling.com/page20.html http://www.asashop.org/autoinc/may98/techtotech.htm http://www.rec1050.com/

		http://www.nnseek.com/e/rec.autos.makers.chrysler/engine_block_coolant_plug_36180614t.html http://www.engine-cooling.com/ http://www.blauparts.com/vw/vw_fluid/vw_coolant_engine_fluid.shtml http://www.sig.itel.net/ http://wiki.answers.com/Q/FAQ/530-1 http://www.engineice.cc/faq.html http://www.spectroinc.com/coolant.pdf http://www.advancepetro.com/coolant.htm http://www.bmwe34.net/e34main/maintenance/engine/Coolant%20replacement.htm http://www.lexls.com/tutorials/cooling/coolant.html
	Biobased Antifreeze	http://www.biobased.oce.usda.gov/fb4p/files/Round_4_proposal.pdf http://www.eere.energy.gov/consumer/renewable_energy/biomass/index.cfm/mytopic=50003 http://www.biofuelsjournal.com/articles/Ashland_and_Cargill_to_Combine_Talents_for_Biobased_Chemical_Joint_Venture_____05_08_2007-44032.html http://forestbioenergy.net/news/saubr-news-posts/ashland-and-cargill-to-form-biobased-chemical-joint-venture/view http://www.biobased.oce.usda.gov/fb4p/files/Round_4_Performance_Standards.pdf http://www.biobased.us/tfd/bma/allvendors7fae.html?dept=b107 http://paguntaka.org/2007/05/08/ashland-and-cargill-to-combine-talents-for-biobased-chemical-joint-venture/ http://www.p2pays.org/ref/37/36210.pdf http://www.ecw.org/prod/237-1.pdf http://www1.eere.energy.gov/biomass/pdfs/28950.pdf http://del.icio.us/foodandfuelamerica/biobased http://www.azom.com/details.asp?newsID=8462 http://www.ars.usda.gov/News/docs.htm?docid=10712&pf=1&cg_id=0 http://del.icio.us/foodandfuelamerica/antifreeze http://www.pnl.gov/biobased/docs/prodplas.pdf http://www.ashland.com/press_room/news_detail.asp?s=1524 http://www.phaseiii.com/webdocs/gov_LosAlamos_Savings_P4.pdf http://www.pnl.gov/biobased/docs/encyclopedia.pdf http://www.nrel.gov/learning/re_bioproducts.html http://www.ofee.gov/ctc/ctcfal01.pdf
	Biobased Engine Coolant	http://www.biobased.oce.usda.gov/fb4p/files/Round_3_proposal.pdf http://www.biobased.oce.usda.gov/fb4p/files/Round_3_Performance_Standards_Addendum.pdf http://www.imakenews.com/lng/e_article000654318.cfm?x=b11,w,w http://www.doi.gov/greening/procure/nine.html http://www.soybiobased.org/resources/A-18.pdf http://greeninginterior.doi.gov/procure/index.html http://www.fws.gov/policy/560fw2.pdf http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/06-6920.htm http://www.ofee.gov/ctc/ctcfal01.pdf http://www.epa.gov/fedrgstr/EPA-IMPACT/2006/August/Day-17/i6920.htm http://www.phaseiii.com/webdocs/gov_LosAlamos_Savings_P4.pdf http://www.apg.army.mil/APGHome/sites/directorates/AP2G/EPPwebtraining.htm http://www.p2pays.org/ref/24/23018.pdf

		http://www.p2pays.org/ref/03/02135.htm http://www.ofee.gov/gp/complnc_monitorg_03022007.pdf http://www.drms.dla.mil/environmental/epa/EPA_Resource/Affirmative_Procurement/aptrain.ppt http://www.fedcenter.gov/programs/buygreen/ http://www.fedcenter.gov/programs/p2/ http://www.federalsustainability.org/initiatives/biodiesel/biodieseltrg.htm http://yosemite1.epa.gov/oppt/eppstand2.nsf/Pages/DisplayAisle.html?Open&Vehicles+and+Transportation+Store&Fleet+Maintenance&Type=4

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 Heat Transfer Fluids	No results
Heat Transfer Fluids	http://www.paratherm.com/heat_transfer_fluids.asp http://www.tmcindustries.com/solvents.html http://www.solvaysolexis.com/prod_fluorinated_fluids.htm http://www.opticalchemicals.com/chemicals.html http://www.starbrite.com/ http://www.heat-transfer-fluid.com/ http://www.thermal-solutions-inc.com/ http://www.daicowater.com/ http://www1.mscdirect.com/CGI/N2DRVSH?SITYPE=1&SITEXT?KNC-T7L391316886 http://www.srcoils.com/basics.html http://www.tfsheat.com/Thermal%20Fluids1.htm http://www.imscompany.com/Public/Home.aspx http://www.in-cal.com/ http://www.lincolnassoc.com/ http://www.carlislebrake.com/ http://www.starbrite.com/ http://www.generalpetroleum.com/ http://www.heatbath.com/Products-link-page.htm http://www.weberoil.com/ http://www.weberoil.com/
Biobased Transfer Fluids	No results
Biobased Coolants	http://www.cimcool.com/cgi-bin/merchant2/merchant.mv?Screen=CTGY&Store_Code=M&Category_Code=EQCM http://www.mooreballiewoil.com/coolants.html http://www.fepco-inc.com/ http://www.thomasregister.com/olc/interstateabrasives/ http://www.mechanicalsupplies.cc/id4.html http://www.hydrotech.com/vendors/vendorpage.php?Code=19 http://www.embenson.com/coolants.htm http://www.coolantmanagement.com/index.htm http://www.precisionplast.thomasregister.com/ http://www.airproducts.com/ProductsMarkets/index.asp

	http://www.coolingtechnology.com/Products/default.html https://reidecom.reidtool.com/xephr/qbe/homepage http://www.sentry-equip.com/index.php http://www.flowrite.com/3_8_options.htm http://www.haassaw.com/catalog_15669.html http://www1.mscdirect.com/CGI/N2DRVSH?SITYPE=1&SITEXT?KNC-T7L391316886 http://www.casconpump.com/ http://a1.solidweb.com/ps/pattonscorp/customer.nsf http://www.trueton.com/ http://www.chem-pak.com/
Biobased Refrigerants	http://www.chem-pak.com/ http://www.polar-tech.com/science_catalog.htm http://www.airgas.com/home.aspx http://www.refron.com/Home.asp http://www.tcpreliable.com/products/pcm/phase5.html http://www.capseal.com/ http://www.indeck.com/ http://www.scapackagingna.com/ http://www.flowrite.com/4_0_custom.htm http://www.norlake.com/ http://www.eemotors.com/food.html http://www.rootneal.com/ http://www.dwdinternational.com/ http://www.thermosafe.com/content.cfm/products http://www.e-johnstonesupply.com/main/johnstone.asp?store=0060 http://www.norlake.com/ http://www.wdserviceco.com/ http://www.ctmsystems.com/ http://www.acesinc.com/ http://www.cryopak.com/
Antifreeze	http://www1.mscdirect.com/CGI/NNSRHM?KNC-T7L391316886 http://www.sbsoil.com/ http://www.rodgersweldingsupply.com/products.php http://www.atlaswelding.com/ Highlight Technology - Lake Mills, WI Oil Service, Inc. - Pittsburgh, PA
Engine Coolant	http://www.clariant.com/corporate/internet.nsf/direct/home?opendocument http://www.parentpetroleum.com/lubricants.asp#metalworking Cummins Engine Co., Inc. - Cookeville, TN
Biobased Antifreeze	http://www1.mscdirect.com/CGI/NNSRHM?KNC-T7L391316886 http://www.sbsoil.com/ http://www.rodgersweldingsupply.com/products.php http://www.atlaswelding.com/ Highlight Technology - Lake Mills, WI Oil Service, Inc. - Pittsburgh, PA
Biobased Engine Coolant	http://www.clariant.com/corporate/internet.nsf/direct/home?opendocument http://www.parentpetroleum.com/lubricants.asp#metalworking Cummins Engine Co., Inc. - Cookeville, TN

Industry Associations

Industry associations provide a good source to identify potential manufacturers, distributors, 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
United Soybean Board Association National Corn Growers Association Antifreeze Recyclers Association of America The Antifreeze Coalition Automotive Aftermarket Industry Association Air Conditioning Contractors of America	No results

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

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

Keyword	Results	
Biobased Heat Transfer Fluids	No results	
Biobased Transfer Fluids	No results	
Heat Transfer Fluids	No results	
Biobased coolants	No results	
Biobased Refrigerants	A-A-58060A	Fluorocarbon and Other Refrigerants
Antifreeze	No results	
Engine Coolant	No results	
Biobased Antifreeze	No results	
Biobased Engine Coolant	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 Heat Transfer Fluids	No results	
Heat Transfer Fluids	MIL-A-9482	ANTI-ICING EQUIPMENT FOR AIRCRAFT, HEATED SURFACE TYPE, GENERAL SPECIFICATION FOR (NO S/S DOCUMENT)
	MIL-STD-777E	SCHEDULE OF PIPING, VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS FOR NAVAL SURFACE SHIPS
	A-A-50559	VALVES, TEMPERATURE-REGULATING (THERMOSTATICALLY CONTROLLED)

	A-A-50561	PUMPS, ROTARY, POWER-DRIVEN, VISCOUS LIQUIDS
	JSSG-2009	AIR VEHICLE SUBSYSTEMS
	MIL-HDBK-1024/2	HELIUM PLANTS AND STORAGE (NO S/S DOCUMENT)
	MIL-F-52252	FILLER, DENT, METAL SURFACE (NO S/S DOCUMENT)
	MIL-STD-417A	CLASSIFICATION SYSTEM AND TESTS FOR SOLID ELASTOMERIC MATERIALS (NO S/S DOCUMENT)
	MIL-HDBK-1811	MASS PROPERTIES CONTROL FOR SPACE VEHICLES
	MIL-PRF-85725A	RACK, INTEGRATED AVIONICS, FORCED AIR COOLED, GENERAL SPECIFICATION FOR
	MIL-C-47220B	COOLANT FLUID, DIELECTRIC (S/S BY MIL-C-87252)
	MIL-HDBK-221	FIRE PROTECTION DESIGN HANDBOOK FOR U.S. NAVY AIRCRAFT POWERED BY TURBINE ENGINES
	MIL-PRF-87252C	COOLANT FLUID, HYDROLYTICALLY STABLE, DIELECTRIC
	MIL-S-45571B	SHEARING MACHINE, THROATLESS, HAND LEVER (S/S BY A-A-50312)
	MIL-C-85485A	CABLE, ELECTRIC, FILTER LINE, RADIO FREQUENCY ABSORPTIVE
	MIL-C-19713B	COOLERS, FLUID, BLEED AIR, GAS TURBINE, NAVAL SHIPBOARD
	MIL-DTL-83420M	WIRE ROPE, FLEXIBLE, FOR AIRCRAFT CONTROL, GENERAL SPECIFICATION FOR
	MIL-C-83286B	COATING, URETHANE, ALIPHATIC ISOCYANATE, FOR AEROSPACE APPLICATIONS (S/S BY MIL-C-85285 S/S BY MIL-PRF-85285)
	MIL-STD-1774	PROCESS FOR CLEANING HYDRAZINE SYSTEMS AND COMPONENTS (NO S/S DOCUMENT)
	MIL-PRF-83772B	HOSE ASSEMBLY, CRYOGENIC LIQUID, AIRCRAFT SERVICING
	MIL-STD-810F	ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS
	MIL-A-46146B	ADHESIVES-SEALANTS, SILICONE, RTV, NONCORROSIVE (FOR USE WITH SENSITIVE METALS AND EQUIPMENT)
	L-T-100B	TAPE, PRESSURE-SENSITIVE ADHESIVE, POLYESTER FILM
	MIL-PRF-6083F	HYDRAULIC FLUID, PETROLEUM BASE, FOR PRESERVATION AND OPERATION
	MIL-HDBK-336/2	SURVIVABILITY, AIRCRAFT, NONNUCLEAR, AIRFRAME-VOLUME 2
	MIL-E-23001B	ELECTRIC GENERATING SYSTEM, VARIABLE SPEED CONSTANT FREQUENCY, AIRCRAFT, GENERAL SPECIFICATION FOR
	MIL-STD-1475	CONTAMINATION CONTROL TECHNOLOGY

		PACKAGING PROTECTION OF PRECISION CLEANED MATERIEL (NO S/S DOCUMENT)
	MIL-PRF-29598	FILM, PROTECTIVE, LEADING EDGE (PRESSURE-SENSITIVE)
	MIL-F-37706	FILTER UNIT, CONTAMINATION ANALYSIS, GRAVIMETRIC (S/S BY A-A-54734)
Biobased Transfer Fluids	No results	
Biobased Coolants	MIL-C-15920	COOLANTS, CUTTING (USE MIL-C-22572)
	ASTM-D1119	ASH CONTENT, PERCENT, OF ENGINE COOLANTS
	ASTM-D1120	ENGINE COOLANTS, BOILING POINT OF
	ASTM-D1121	RESERVE ALKALINITY OF ENGINE COOLANTS AND ANTIRUSTS
	ASTM-D1122	ENGINE COOLANTS CONCENTRATES AND ENGINE COOLANTS BY THE HYDROMETER, DENSITY OR RELATIVE DENSITY OF
	ASTM-D1176	ENGINE COOLANTS OR ANTIRUSTS, FOR TESTING PURPOSES, SOLUTIONS OF, SAMPLING AND PREPARING AQUEOUS
	ASTM-D1177	ENGINE COOLANTS, AQUOUS, FREEZING POINT OF
	ASTM-D1287	ENGINE PH OF COOLANTS AND ANTIRUSTS
	ASTM-D1881	ENGINE COOLANTS IN GLASSWARE, FOAMING TENDENCIES OF
	ASTM-D3147	ENGINE COOLANTS, STOP-LEAK ADDITIVES FOR
	ASTM-D3634	ENGINE COOLANTS, TRACE CHLORIDE ION IN
	ASTM-D6107	ENGINE COOLANTS USED IN LIGHT DUTY SERVICE, STOP-LEAK ADDITIVE FOR
	MS28050B	VALVE, CHECK, LOW PRESSURE, INTERNAL THREADS
	MIL-C-51047B	COMPOUND, ANTISEEPAGE, FOR COOLING SYSTEM, INTERNAL COMBUSTION ENGINE (METRIC) (S/S BY ASTM-D6107)
	A-A-58017	RECOVERY UNIT, ANTI-FREEZE
	A-A-59168	LAYOUT FLUID (DYE), BLUE
	MIL-STD-866C	GRINDING OF CHROME PLATED STEEL AND STEEL PARTS HEAT TREATED TO 180,000 PSI OR OVER
	MIL-A-53009A	ADDITIVE, ANTIFREEZE EXTENDER, LIQUID COOLING SYSTEMS
	MIL-DTL-62462D	ENGINE, DIESEL, LIQUID-COOLED, 8 CYLINDER; 4 CYCLE, V-TYPE, 220 KW (295 HP)
	A-A-52624A	ANTIFREEZE, MULTI ENGINE TYPE
	A-A-52545A	HEATERS, VEHICULAR COMPARTMENT 28 VOLT, DC
	A-A-59150A	CLEANING COMPOUND, SOLVENT, HYDROFLUOROETHER (HFE)
	MIL-A-11755E	ANTIFREEZE, ARCTIC-TYPE (S/S BY A-A-52624)
	O-I-00490B	INHIBITOR, CORROSION, LIQUID COOLING

		SYSTEM (USE MIL-A-53009)
	O-A-548D	ANTIFREEZE/COOLANT, ENGINE: ETHYLENE GLYCOL, INHIBITED, CONCENTRATED (S/S BY A-A-870)
	A-A-59743	CLEANING COMPOUND SOLVENT, DICHLOROPENTAFLUOROPROPANE (HCFC-225)
	MIL-B-25870A	BEARING, SINTERED METAL, PROCESSING OF
	MIL-A-46153C	ANTIFREEZE, ETHYLENE GLYCOL, INHIBITED, HEAVY DUTY, SINGLE PACKAGE (S/S BY A-A-52624)
	MIL-C-45167C	CAPS, RADIATOR: PRESSURE RELIEVING (S/S BY A-A-52424)
	MIL-HDBK-1407	HEATERS, VEHICULAR COMPARTMENT; HEATERS, COOLANT, ENGINE; HEATERS, SPACE; HEATERS, DUCT-TYPE
Biobased Refrigerants	MIL-DTL-2/22E	VALVE, CYLINDER, GAS: REFRIGERANTS, OUTLET 660 (PRESSURES THROUGH 500 PSIG (3450 KPA) AT 70 DEGREES F (21.1 DEGREES C))
	MIL-L-3516D	LEAK DETECTOR, REFRIGERANT GAS, ACETYLENE BURNING, WITH SEARCH HOSE (FOR NONCOMBUSTIBLE REFRIGERANTS) (NO S/S DOCUMENT)
	MIL-V-20064E	VALVE, NONFERROUS FOR USE WITH HALOGENATED REFRIGERANTS
	A-A-58060A	FLUOROCARBON AND OTHER REFRIGERANTS
	BB-F-1421B	FLUOROCARBON REFRIGERANTS (S/S BY A-A-58060)
	RR-C-910/1	CYLINDERS, COMPRESSED GAS: DOT SPECIFICATIONS 4BA, 4BW, AND 4E FOR REFRIGERANTS, FIRE-EXTINGUISHING AGENTS AND STERILIZATION GASES (S/S BY A-A-59666)
	ARI700	SPECIFICATIONS FOR FLUORCARBONS REFRIGERANTS.
	ARI760	SOLENOID VALVES FOR USE WITH VOLATILE REFRIGERANTS
	ARI-GUIDELINE-K	CONTAINERS FOR RECOVERED FLUOROCARBON REFRIGERANTS
	MS35882C	VALVE, PACKLESS, STOP, THREE-WAY, SOLDER-JOINT CONNECTION ENDS (NO S/S DOCUMENT)
	MIL-STD-1564A	PROCEDURE FOR CALIBRATION AND ANALYSIS OF TRACE CONTAMINANTS IN AVIATOR S BREATHING OXYGEN BY INFRARED SPECTROSCOPY
	MIL-C-83360C	CLEANING AND LUBRICATING COMPOUND, ELECTRICAL CONTACT (S/S BY MIL-PRF-29608)
	OO-D-450C	DISPENSERS, BULK MILK, MECHANICALLY COOLED; AND DISPOSABLE MILK CONTAINERS (S/S BY A-A-59360)

	A-A-59183	ICEMAKER-DISPENSER WITH WATER DISPENSER ATTACHMENT (NAVAL SHIPBOARD)
	A-A-59184	DISPENSER, CARBONATED BEVERAGE, MECHANICALLY REFRIGERATED (NAVAL SHIPBOARD)
	MIL-C-24746	COOLERS, UNIT FORCED AIR FOR SHIP'S REFRIGERATED STORES
	MIL-DTL-2G	VALVES, CYLINDER, GAS (FOR COMPRESSED OR LIQUEFIED GASES), GENERAL SPECIFICATION FOR
	A-A-50488	DISPLAY CASE, MECHANICALLY REFRIGERATED, REACH-IN MERCHANDISERS, GLASS DOOR, LOW AND MEDIUM TEMPERATURE (NO S/S DOCUMENT)
	A-A-59666A	CYLINDER, COMPRESSED GAS: DOT SPECIFICATIONS 4B, 4BA, 4BW, AND 4E
	A-A-59468	ICE MAKING MACHINE, CUBE AND FLAKE (NAVAL SHIPBOARD)
	A-A-59190	COLD FOOD COUNTER, MECHANICALLY REFRIGERATED (NAVAL SHIPBOARD)
	MIL-V-22862C	VALVES, COMPRESSOR SERVICE, REFRIGERANT-12 (NO S/S DOCUMENT)
	MIL-I-11867K	ICE MAKING MACHINE, CUBE
	A-A-54525A	FREEZER, MECHANICAL, BLOOD PRODUCTS
	A-A-59360	DISPENSER, BULK MILK, MECHANICALLY REFRIGERATED (NAVAL SHIPBOARD)
	A-A-52137	CABINETS, FOOD SERVICE, REFRIGERATOR-WARMER, ROLL-THROUGH, ROLL-IN (NO S/S DOCUMENT)
	A-A-59188	REGRIGERATOR, MECHANICAL, STORAGE STAND (FOR BULK MILK DISPENSERS) (NAVAL SHIPBOARD)
	MIL-A-21071B	ANTIFOGGING COMPOUND, TRANSPARENT AIRCRAFT ENCLOSURES (NO S/S DOCUMENT)
	VV-L-825C	LUBRICATING OIL, REFRIGERANT COMPRESSOR, UNINHIBITED
Antifreeze	MIL-T-37402 MIL-C-52155C MIL-A-53009A(1) A-A-51461C NOT 1 A-A-52624A	TESTER, ANTIFREEZE SOLUTIONS CHARGES, FIRE EXTINGUISHER, ANTIFREEZE, CALCIUM LITHIUM CHLORIDE BASE AND LITHIUM CHLORIDE BASE ADDITIVE, ANTIFREEZE EXTENDER, LIQUID COOLING SYSTEMS TEST KIT, TEST STRIPS AND COLOR CHART, ANTIFREEZE, FREEZE POINT AND NITRITE CONCENTRATION ANTIFREEZE, MULTI ENGINE TYPE
Engine Coolant	MIL-PRF-62259B A-A-59686 ASTM-D1119 ASTM-D1120	RADIATOR: ENGINE COOLANT PREHEATER, ENGINE COOLANT, DIESEL-FIRED, 24-VOLT DC ASH CONTENT, PERCENT, OF ENGINE COOLANTS ENGINE COOLANTS, BOILING POINT OF

	ASTM-D1121 ASTM-D1122 ASTM-D1176 ASTM-D1177 ASTM-D3147 ASTM-D3634 ASTM-D4985 ASTM-D6107	RESERVE ALKALINITY OF ENGINE COOLANTS AND ANTIRUSTS ENGINE COOLANTS CONCENTRATES AND ENGINE COOLANTS BY THE HYDROMETER, DENSITY OR RELATIVE DENSITY OF ENGINE COOLANTS OR ANTIRUSTS, FOR TESTING PURPOSES, SOLUTIONS OF , SAMPLING AND PREPARING AQUEOUS ENGINE COOLANTS, AQUEOUS, FREEZING POINT OF ENGINE COOLANTS, STOP-LEAK ADDITIVES FOR ENGINE COOLANTS, TRACE CHLORIDE ION IN ENGINE COOLANT, LOW SILICATE ETHYLENE GLYCOL BASE, FOR HEAVY DUTY ENGINES REQUIRING A PRE-CHARGE OF SUPPLEMENTAL COOLANT ADDITIVE (SCA) ENGINE COOLANTS USED IN LIGHT DUTY SERVICE, STOP-LEAK ADDITIVE FOR
Biobased Antifreeze	No results	
Biobased Engine Coolant	No results	

AbilityOne – (http://www.abilityone.gov/jwod/p_and_s/search_products.html)
AbilityOne is a mandatory source of supply for all Federal government employees. These products are manufactured and distributed by nonprofit agencies throughout the United States that employ people who are blind or have other severe disabilities.

Keyword	Results
Biobased Heat Transfer Fluids	No Results
Heat Transfer Fluids	No Results
Biobased Transfer Fluids	No Results
Biobased Coolants	No Results
Biobased Refrigerants	No Results
Antifreeze	No results
Engine Coolant	No results
Biobased Antifreeze	No results
Biobased Engine Coolant	No results

Green Seal Environmental Standards– (http://www.greenseal.org/findaproduct/index.cfm)
Green Seal develops environmental certification standards for specific product categories and certifies products and services that meet them.

Standard Number	Standard Title
GC-31	Electric Chillers
GC-10	Fleet Vehicle Maintenance

Company	Products
Trane	EarthWise™ CenTraVac® Centrifugal Chillers Model CVHE 360-500 Model CVHE 560-800 Model CVHF 555-640 Model CVHF 650-910 Model CVHF 1060-1280 CVHE, CVHF models w/ Adaptive Frequency Drive

FedBizOpps – (http://www.fedbizopps.gov/)

FedBizOpps.gov is the single government point-of-entry for Federal government procurement opportunities over $25,000.

Keyword	Office	Posted Date	Synopsis
Biobased Heat Transfer Fluids	No Results		
Heat Transfer Fluids	Naval Sea Systems Command	January 30, 2008	The Scientific and Technology/Research and Development functions include: mechanical and electrical power and propulsion systems; auxiliary machinery systems; hull, deck and habitability machinery systems; machinery automation, controls, sensors, and network systems; and machinery integrated logistics systems and procedures. In their application, these products and their management over the life cycle greatly influence the viability of operation and the affordability of naval platforms. Our work is focused on providing the present and future Navy with systems that meet stated or implicit requirements for: new or extended depth, range, speed, and better control; quicker or more responsive action; quieter operation; greater life; higher reliability; and improved safety.
	National Institute of Standards and Technology (NIST)	January 29, 2008	The National Institute of Standards and Technology (NIST) has a requirement for an Atomic Force Microscope (AFM) to be used in the Surface and Microanalysis Science Division at NIST, Gaithersburg, MD.
	Naval Air Systems Command	January 22, 2008	The Naval Air Warfare Center, Aircraft Division, Lakehurst, NJ is seeking sources/information for : 2 each Arresting Gear Engine (2)-3s, (1)-4, P/N 50-61937-3/4 The arresting engine transforms the pull of the purchase cable into hydraulic

			resistance in order to stop an aircraft during an aircraft carrier landing. The arresting engine consists of: an Accumulator and Air expansion Flasks, Retract Valve, Fixed Sheave Assembly, Crosshead Assembly, Fluid Cooler, Manifold, Fairlead Installation, Cylinder and RAM assembly, Constant Runout Valve (CROV) drive system and CROV.
	National Institute of Standards and Technology (NIST)	January 15, 2008	The National Institute of Standards and Technology (NIST) has a requirement for a Water Heat Pipe Blackbody.
	Army Contracting Agency, North Region	January 15, 2008	The contractor shall provide the following: Maintenance and Repair Refrigeration Support. Aberdeen Test Center (ATC) is a testing agency for the Dept. of the Army and houses various refrigeration systems that may not be comparable to private industry HVACR. ATC is looking for a privat e industry contractor to provide maintenance and repair services on various test chambers located at Aberdeen Proving Ground (APG).
	Animal and Plant Health Inspection Service	September 06, 2007	The Honeycomb Washer Conveyor described herein will be used by the USDA. APHIS, PPQ Pink Bollworm Rearing Facility to automate our honeycomb cleaning process. The system will be expected to bleach wash, rinse and dry our honeycomb sheets. These sheets are used in the mass rearing of pink bollworm moths. The primary target in cleaning the honeycomb sheets is the removal of the silk webs that the larval stage of the insects produce when it crawls into one of the honeycomb cells and pupates.
	Office of Administration	June 19, 2007	Under this requirement, the contractor shall capture all contributing heat transfer mechanisms that impact the heat rejection capacity of the RCCS: radiation, convection, and conduction for both the air-cooled and water-cooled designs. The selected tools have to be consistent with the large scale of and RCCS, as well as the operating regimes expected during normal and accident conditions. Simulations shall account for changes in the heat rejection capability of the RCCS induced by heterogeneous boundary conditions,

			e.g., coolant mass flow rate and temperature distribution at the inlet, vessel heat flux discontinuities, flow obstructions, and emissivity variations. Special attention shall be given to the influence of dust on local heat transfer phenomena.
	Office of Administration	June 19, 2007	Under this requirement, the contractor shall select tools and techniques that are appropriate for the length scales and characteristic Re numbers that correspond to interstitial spaces in both pebble and prismatic HTGR cores and have the capability to simulate local phenomena in the core ranked high by the R&D phenomena tables. The suitability of selected tools and techniques shall be demonstrated by investigating the velocity and temperature field responses to several parameters expected to dominate the thermalfluidic behavior in the core.
	Air Force Materiel Command	April 07, 2005	The 96 CONS/MSCB, Eglin AFB, FL intends to solicit and award a Firm-Fixed Price contract for a Double Planetary Mixer.
	Naval Air Systems Command	September 30, 2004	The Portable Hydraulic Test Stand described below will be used to perform Organizational Level maintenance requirements for F-18 aircraft. Hydraulic flow and pressure are provided for checking the performance and operating characteristics of aircraft hydraulic systems. The portable Hydraulic Test Stand should consists of two independent hydraulic systems, two control panels, two fill and bleed systems and warning systems, cabinet, trailer and two electric motors.
	United States Coast Guard (USCG)	June 17, 2004	The United States Coast Guard has identified the need to replace one (1) Each hydraulic test stand currently used for testing aircraft hydraulic components, such as servos, cylinders, valves, actuators, pumps and motors that are overhauled and supported by the US Coast Guard Aircraft Repair and Supply Center located in Elizabeth City, North Carolina 27909-5001.
Biobased Transfer Fluid	No Results		
Biobased Coolants	No Results		
Biobased	No Results		

Refrigerants			
Antifreeze	National Guard Bureau ANG	September 9, 2008	Volk Field Combat Readiness Training Center is contemplating an award for an Action Target TCT3 bullet trap (or equal) and accessories.
	Air Mobility Command	September 8, 2008	MFR: Spokane Industries Model: CNV 400S-12V Description: 400 gal, double wall tight wrap t304 stainless steel elliptical low profile tank.
	U.S. Army Materiel Command, U.S. Army TACOM Life Cycle Management Command	September 5, 2008	No guaranteed minimum or maximum quantities to be ordered for the disassembly of the M916/ M920 Truck Tractor Kits. Kits are to be provided in accordance with the Scope of Work (SOW) at FAR 52.000-4050, and Certificate of Conformance (COC), at FAR 52.246-15 contained in the solicitation. The contract will encompass a joint rebuild process between the contractor and RRAD. All vehicles provided to the contractor will be provided by US Army Reserve Command as Government Furnished Equipment (GFE) between USARC and the contractor.
	United States Coast Guard (USCG)	September 5, 2008	This is a combined synopsis/solicitation for commercial items prepared in accordance with the format in FAR Subpart 12.6, as supplemented with additional information included in this notice. This announcement constitutes the only solicitation; proposals are being requested and a written solicitation will not be issued. HSCG24-08-Q-8248 is issued as a Request for Quotation (RFQ). The applicable NAICS is: 333298 and the small business size standard is 500 employees. This RFQ is issued as a Small Business Set Aside.
	Military Sealift Command	September 5, 2008	Military Sealift Fleet Support Command (MSFSC), Virginia Beach, VA intends to award a Sole Source firm fixed price purchase order to Schat Harding for the following services: The requested period of performance for the above service is 13 October through 02 November 2008.

			Location is Pier 8, Norfolk, Virginia ABSTRACT: This item describes the repair and maintenance for the Port and Starboard Ridgid Hull Inflatable Boats (RHIB).
	Army Contracting Agency, North Region	September 4, 2008	Diesel Generator Sets 0001 - Qty = (1) Generator, Diesel 350kW. Subject to the Availability of Funds (FAR 52.232-18). Brand Name or Equal to Cummins Powered with 650 gallon steel double walled fuel tank. Shall have sound attenuation enclosure using steel panels and locking doors on modular structural base frame. Shall include a hot ambient air extraction fan. Included Equipment: Generator engine and alternator on welded steel frame, skid mount platform, flexible fuel lines, oil drain cock. Analog/digital control panel with autostart, voltage and amperage readouts. Shall have % low coolant level shutdown, audible alarm on engine shutdown, electronic governor, residential muffler (enclosed models), industrial muffler (open models), exhaust pipe, spring isolators, 12 volt electric starter, air filter, radiator, blower fan and guards, battery box, battery cables, batteries, lube oil, anti-freeze, automatic shutdowns, 2 year 3000 warranty, owners manual and warranty.
	Air Combat Command	August 28, 2008	CLIN 0001: Aircraft Ground Equipment Fueling/Defueling cart system MFR: Spokane Industries Model: CNV 600S EA 12V Description: 600 gal, double wall tight wrap t304 stainless steel elliptical low profile tank. Fuel delivery system: 12VDC driven fuel pump. Dual deep cycle battery system with 110/120V batter charging system and external powering capability using standard 7 prong commercial vehicle plug (used to run off tow vehicle if batteries are weak/dead during operation). Top fill tank, no bottom fill provisions. 2" diameter fill tube that runs to the bottom of the tank that prevents free fall of fuel, prventing static electricity. Moisture drain valve. Liquid level gauge at top of tank in 1/4 tank increments. Pump

			cabinet (covers pump and hose assemblies). Fuel meter reading 0-1000 US gallons in 1 gallon increments. Aviation filter housing, cartridge style fileter element. Series hose reel. 1"x35' aviation fuel hose. Refueling nozzle, standard diesel 1" with auto-shutoff capability. 4 wheel undercarriage. e-range tires on split steel wheels. Rear wheel cable drum brakes, manually operated with set lever on front. Front wheel steering. Lunette tow bar (pintle style). 1 each grounding reel with 50' coated cable. 1 ea PURPLE K BC rated, 10 lbs fire extinguisher.
	Army Contracting Agency, North Region	August 25, 2008	Furnish all plant, labor, equipment, and materials necessary to supply 24 - 330 gallon totes of Antifreeze in separate deliveries of 8 totes each. After the first delivery, the Government will schedule the subsequent delivery dates of the remaining totes. This contract type will be firm fixed priced. This acquisition is 100% set aside for small business concerns. Solicitation anticipated issue/posting date will be on or about August 25, 2008, and will be posted to the Army Single Faced Industry (ASFI) webpage: https://acquisition.army.mil/asfi/ , under W911S2-08-T-0037. Any questions shall be submitted in writing via facsimile to (315) 772-9861, or emailed to rebecca.ruff1@us.army.mil
	Department of Energy	August 25, 2008	The associated NAICS code is 423110 with a small business size standard of 100 employees. This RFP contains two (2) line items. The line item descriptions are as follows: CLIN 0001 One (1), Tanker Truck, 2008 or newer International DiamondSpec Model 5600i (6x4)(DF567), or equal in accordance with the specifications below: -Requested GCWR 90,000, Calc. GVWR 54,780 -Calc. Geared Speed: 74 MPH -Wheel base of 192 inches, cab to axle: 130 inches, axle to frame: 62 inches. -Diesel engine, Cummins ISX 500, 50 state 525 HP @ 1800 RPM Electronic

	U.S. Army Materiel Command	August 6, 2008	**Contracting Office Address:** TACOM - Red River, ATTN: AMSTA-RR-P, 100 Main Drive, Building 431, Texarkana, TX 75507-5000 **Place of Performance:** TACOM - Red River ATTN: AMSTA-RR-P, 100 Main Drive, Building 431 Texarkana TX 75507-5000 US **Point of Contact(s):** Leola Threadgill, (903)334-2330
Engine Coolant	Air Force Materiel Command	August 5, 2008	. Estimated issue date 20 August 2008, Estimated closing/response date20 September 2008. 2. PR# - FD203009801423. Service/Spare/Repair/OH - Spare4. AMC - 1C5. Item: HOUSING,GEARBOX,TUR6. NSN - 2840014523173PRPR 7. PN - 9340M41G03,9340M41G048. Description: Description: THE MAIN HOUSING IS A MAGNESIUM ALLOY CASTCOMPONENT OF THE ACCESSORY GEARBOX. THE FUNCTION OF THE MAIN HOUSING ISTO FORM AN OIL TIGHT BOX CONTAINING A GEAR DRIVE THAT POWERS SEVERALCOMPONENTS OF THE ENGINE AND AIRCRAFT. DIMENSIONS: APPROXIMATELY 25NCHES WIDE X 8.6 INCHES DEEP X 8.6 INCHES TALL. MATERIAL: QE-22 (ALLOYOF MAGNESIUM AND SILVER).9. Total Line Item Quantity: L/I 0001AA - 3 EA Government First Article- 1 to be extended in testing.
	Air Force Materiel Command	September 17, 2008	**Notice Type:** Award Notice **Contract Award Date:** September 17, 2008 **Contract Award Number:** FA8104-08-G-0002-UNL9 **Contract Award Dollar Amount:** 4,441,200

			Contractor Awardee: CFM INTERNATIONAL, INC.,111 MERCHANT ST,CINCINNATI OH45246-3730
	U.S. Army Corps of Engineers	September 11, 2008	S--This request for quotations is amended to change the address, telephone number and square footage for line items 0006 through 0011 is chenged as follows: U. S. ARMED FORCES RECRUITING OFFICE ATTN: STATION COMMANDER NAVY: NCI MONAHAN7828 RICHMOND HIGHWAY ALEXANDRIA, VA 22306 703-325-9742 SQUARE FEET: 4200 ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.
	Naval Facilities Engineering Command	September 17, 2008	**Contract Award Date:** September 17, 2008 **Contract Award Number:** N6247308C3511 **Contract Award Dollar Amount:** 37,771,939 **Contract Line Item Number:** 0001 **Contractor Awardee:** Sundt-Williams Scotsman, A Joint Venture2620 South 55th StTempe, AZ 85282
	U.S. Army Corps of Engineers	September 17, 2008	**Synopsis:** Added: Sep 17, 2008 5:33 pm Drilling Material, Isabella Dam, Lake Isabella, CA **Contracting Office Address:** Attn: CENWO- CT 1616 Capital Ave Omaha, Nebraska 68102-4901 United States **Place of Performance:**

			4901 Ponderosa Drive Lake Isabella, California 93240 United States
	Naval Facilities Engineering Command	Augustr 28, 2008	Y--P-546 STUDENT QUARTERS, P-555 INSTRUCTION FACILITY, P-619 INSTRUCTION FACILITY ADDITION,P-547 STUDENT BARRACKS, THE BASIC SCHOOL AT MARINE CORPS BASE QUANTIC
	Naval Facilities Engineering Command	July 21, 2008	NAVFAC Southwest, Lemoore FEAD/CODE ROPWL Naval Air Station, Lemoore, CA requires all labor, management, supervision, tools, materials, equipment and transportation to clean dumpsters, food preparation exhaust systems and mud traps. In accordance with FAR 5.102 (a), availability of the solicitation will be limited to the electronic medium. The solicitation will be available for viewing and downloading at Internet web address: https://www.neco.navy.mil approximately 8 August 2008. The work identified is to provide a firm fixed-price contract. The period of performance will be for twelve (12) months from the contract start date. The duration of this contract, including the exercise of any options shall not exceed five years. The base year may be awarded for less than twelve (12) months. The proposed contract will be set aside for Service Disabled Veteran Owned Businesses. The North American Industry Code System (NAICS) code for this procurement is 562998. The Small Business size standard for this NAICS code is $6.5 million (average annual receipts for the past three years). Source Selection Procedures will be used to select the proposal that provides the lowest priced, technically acceptable offer. Past performance will be evaluated but as a non-cost factor only. Notifications of any changes (amendments) to the solicitation may be made only on the Internet. It will be the contractor's responsibility to check the website for any posted changes. All prospective

			offerors are reminded, in accordance with DFAR 252.204-7004, ALTERNATE A (MAR 2000), a lack of registration in the CCR database will make an offeror ineligible for award.
	Naval Facilities Engineering Command	August 12, 2008	The Officer in Charge requires all labor, management, supervision, tools, material, and equipment required for Non-Hazardous Waste Collection and Disposal Services at Portsmouth Naval Shipyard, Kittery, Maine; Naval Air Station, Brunswick and Defense Finance Accounting Services, Limestone, Maine. The work includes but is not limited to: coordinating with U.S. Customs and the Department of Agriculture in the pickup, transportation and disposal of foreign waste, including the maintaining all containers free from defects, without graffiti and in safe operating condition to preclude loss of load through holes or malfunctioning/missing doors, latches, hinges, etc.
	U.S. Army Corps of Engineers	September 17, 2008	J--Contractor shall furnish all labor, material and equipment necessary to provide HVAC services at the U.S. Armed Forces Recruiting Office, 3077 Festival Way, Waldorf, MD. The estimated cost of this requirement is between $9,500.00 and $11,000.00. The work is to be performed four (4) times per year during the period of 01 October 2008 through 30 September 2013. (One Base Year and Four (4) Option Years) This requirement NAICS is 238220 and the size standard is $13.0 million. It is currently set aside for small business only. This requirement must be provided in strict accordance with the statement of work included in the request for quotation bid package that can be obtained from the Corps' website. Only those vendors who can obtain the requirement EXACTLY as stated in the specifications may provide a quote. . All responsible sources may submit a bid which shall be considered by the agency. The solicitation will be provided in an electronic format, free of charge, to all registered plan holders. The media through which the Government chooses to issue this

			solicitation will be the Internet only. This solicitation will not be issued in paper. Contractors requests for this solicitation will be performed through ASFI.
Biobased Antifreeze	No Results		
Biobased Engine Coolant	No Results		

Conclusion

The results from the eight information sources indicate that 5 manufacturing companies in the United States are currently producing Heat Transfer Fluids that may be considered for inclusion in the BioPreferred Program.