Metalworking Fluids

Pollution Prevention Information Packet

September 1995

Prepared by
Office of Pollution Prevention
Ohio EPA
P.O. Box 1049
Columbus, OH 43216-1049
(614) 644-3469
Can you use more information about making your metalworking operations more profitable? More likely to be in compliance, or better? More environmentally friendly, using pollution prevention? And, who sells the necessary equipment and materials? Would you like to get the basics in one place? Ohio EPA's Office of Pollution Prevention has done some of that work for you. This packet has several of the best, most beneficial and commonly referenced technical papers available in this area. We are pleased to provide this information to help make your job easier.

Pollution prevention offers you some of the best opportunities to reach each of your objectives above. Please use these references as guidance, and contact the Office of Pollution Prevention if you would like further information.

The information packet contains the following articles:


A listing of potential vendors can be found at the end of the information packet. This list is not necessarily a complete listing of vendors, but is being provided to help identify and locate vendors of pollution prevention equipment and supplies. Ohio EPA does not endorse any of these vendors, but provides this information as a service to Ohio businesses.
Besides this information packet, the Office of Pollution Prevention (OPP) of Ohio EPA provides other types of technical assistance. OPP provides industry specific pollution prevention from over-the-phone consultations to on-site pollution prevention assessments. All services are non-regulatory and provided free-of-charge. OPP also coordinates voluntary pollution prevention programs such as Green Lights and Ohio Prevention First. In cooperation with the Ohio Department of Development, OPP administers a pollution prevention loan program. This program loans funds for existing facilities to acquire or renovate machinery and equipment for pollution prevention practices. For further information on any of OPP's program contact OPP at (614) 644-3469, or point your Internet World Wide Web browser to: http://www.epa.ohio.gov/opp/oppmain.html.
Vendors of Equipment and Services Related to Prolonging the Life of Metalworking Fluids

September 1995

The following is a list of vendors of equipment and services related to prolonging the life of metalworking fluids. This list is a partial representation. If you wish to be added to the list, please notify the Ohio EPA Office of Pollution Prevention in writing. This list is not an endorsement or approval of these vendors by Ohio EPA.

METALWORKING FLUIDS

Centrifugal Separators

ALFA LAVAL SEPARATION INC.
A.M.L. INDUSTRIES, INC.
BARRETT CENTRIFUGALS
FLOTTWEG
HUCKINS & ASSOCIATES
JAMES E. GIESSEL
MASTER CHEMICAL COMPANY
SANBORN, INC.
SCRAP TECH, INC.
SUNSET FILTRATION PRODUCTS, INC.

Biocide, Microbial Testing, Fluid Testing

BIOTECH INTERNATIONAL, INC.
(Biode, Microbial Testing)
DEXSIL CORPORATION
(Contaminant Testing)

Chip Wringers

HUCKINS & ASSOCIATES
INTER-SOURCE RECOVERY SYSTEMS, INC.
PRAB CONVEYORS, INC.
SANBORN, INC.
SCRAP TECH, INC.

Skimmers

ACME PRODUCTS CO.
BOB BIRD SALES
BLASER SWISSLUBE INC.
CAROL COMPANY
CHEMICAL MANAGEMENT SYSTEMS
COMO INDUSTRIAL EQUIPMENT, INC.
DOUGLAS ENGINEERING

Skimmers continued

DYNAMIC PROCESS INDUSTRIES
ENGINEERED FILTERS, INC.
GREAT LAKES PUMP & SUPPLY CO.
HUCKINS & ASSOCIATES
HUDSON INDUSTRIES
JAY R. SMITH MFG. CO.
MAIN & ASSOCIATES
MAN-GILL CHEMICAL CO.
MASTER CHEMICAL COMPANY
MEGATOR CORP
MIDBROOK INDUSTRIES, INC.
MONLAN CORPORATION
MONROE ENVIRONMENTAL CORP.
MYRIAD DISTRIBUTION
J. NEILL & ASSOCIATES
NUMAR SYSTEMS CO.
OIL MOP, INC.
OIL SKIMMERS INC.
OYLBELT CORP.
PASCO PRODUCTS AND SERVICES
RUDDUX CORPORATION
SERFILCO
VALIANT INTERNATIONAL INC.
WILLIAM A. DALEE, INC.

Filtration

BIOTECH INTERNATIONAL, INC.
C & E SALES & SERVICE
CHEMICAL MANAGEMENT SYSTEMS
COMO INDUSTRIAL EQUIPMENT, INC.
R. L. DEPPMAN CO.
EBBCO, INC.
ENGINEERED FILTERS, INC.
GREAT LAKES PUMP & SUPPLY CO.
THE HILLIARD CORPORATION
HUCKINS & ASSOCIATES
Filtration continued

H. V. BURTON CO.
HYDROFLOW INCORPORATED
INDUSTRIAL FILTERS COMPANY
JAMES E. GIESSEL
JESSE W. EAKIN'S CO.
MAIN & ASSOCIATES
MAN-GILL CHEMICAL CO.
MASTER CHEMICAL COMPANY
MCRAE & ASSOCIATES
MIDBROOK INDUSTRIES
MONLAN CORPORATION
MYRIAD DISTRIBUTION
NUMOR SYSTEMS
OSMONTICS
OBERLIN FILTER COMPANY
ROILGARD, INC.
SERFILCO, LTD.
SUNSET FILTRATION PRODUCTS, INC.

Coalescing Separator continued

FLO TREND SYSTEMS, INC.
GENERAL INDUSTRIES INC.
GRAVER WATER
GREAT LAKES ENVIRONMENTAL INC.
HIGHLAND TANK & MANUFACTURING CO.
HUDSON INDUSTRIES
HUCKINS & ASSOCIATES
H. V. BURTON CO.
HYDRO-FLO TECHNOLOGIES INC.
JAMES E. GIESSEL
JESSE W. EAKIN'S CO.
J. NEILL & ASSOCIATES
LANDA
MAIN & ASSOCIATES
MAN-GILL CHEMICAL CO.
MCRAE & ASSOCIATES
MCTIGHE INDUSTRIES INC.
MIDBROOK INDUSTRIES
MONROE ENVIRONMENTAL CORP.
MYRIAD DISTRIBUTION
NATIONAL FLUID SEPARATORS
NUMOR SYSTEMS CO.
OSMONTICS
PAN AMERICAN ENVIRONMENTAL
PHASE SEPARATION SYSTEMS
ROILGARD, INC.
RUDDUX CORPORATION
SANBORN, INC.
SERFILCO
SUNSET FILTRATION PRODUCTS, INC.
VAN AIR SYSTEMS INC.

Sump Cleaner

CECOR
EDJETECH SERVICES
EXAIR CORPORATION
HUCKINS & ASSOCIATES
MASTER CHEMICAL COMPANY
MCRAE & ASSOCIATES
MIDBROOK INDUSTRIES, INC.
MONLAN CORPORATION
MYRIAD DISTRIBUTION
NUMOR SYSTEMS CO.
PORTER SYSTEMS
SANBORN, INC.
SUNSET FILTRATION PRODUCTS, INC.

Coolant, Cutting Fluid, Lubricant

BLASER SWISSSLUBE INC.
Dyna Tech
INTERNATIONAL LUBRICANTS, INC.
IRMCO
NOVAMAX TECHNOLOGIES INC.
PETRO-CANADA PRODUCTS

Metalworking Fluid Recovery

COMO INDUSTRIAL EQUIPMENT, INC.
(Oil Recycling)
EDJETECH SERVICES
(Coolant Recovery)
ENCYCLON INC.
(Cyclonic Separator)
ENERVAC CORPORATION
(Batch Recovery System)
ENVIRONMENTAL DYNAMICS CORP.
(Oil Mist Recovery)
HYDE PRODUCTS, INC.
(Batch and Continuous Systems)
JET AIR TECHNOLOGIES
(Oil Mist Recovery)
LTM INDUSTRIES INC.
(Oil Recycling)
MONROE ENVIRONMENTAL CORP.
(Oil Mist Recovery)
Metalworking Fluid Recovery continued

ROYAL PRODUCTS
(Oil Mist Recovery)
SANBORN DONALDSON
(Batch and Continuous Systems)
SERFILCO
(Oil Recycling)

WATER PURIFICATION

Reverse Osmosis

APPLIED MEMBRANES INC.
COMPLIANCE SYSTEMS, INC.
CULLIGAN INTERNATIONAL COMPANY
DESALINATION SYSTEMS, INC.
DYNATEC SYSTEMS
ENERVAC CORPORATION
GLITSCH, INC.
GRAVER WATER
HOFFLAND ENVIRONMENTAL.
INCORPORATED, ACS ENVIRONMENTAL
ILLINOIS WATER TREATMENT COMPANY
KOCH MEMBRANE SYSTEMS INC.
OSMONICS
PENFIELD
PRINTERS' SERVICE (PRISCO)
SANBORN DONALDSON
SEPARATION TECHNOLOGY, INC.
UPSTREAM TECHNOLOGIES, LLC
WATER CYCLE
ZENON ENVIRONMENTAL SYSTEMS INC.

Deionization Equipment

AUTOTROL, AN OSMONICS COMPANY

Ultrafiltration continued

KOCH MEMBRANE SYSTEMS INC.
MEMBREX
MIDBROOK INDUSTRIES
PENFIELD
SANBORN DONALDSON
SEPARATION TECHNOLOGY, INC.
UPSTREAM TECHNOLOGIES, LLC
WATER CYCLE
ZENON ENVIRONMENTAL SYSTEMS INC.
Addresses and Telephone Numbers

ACG TECHNOLOGY
2295 DUNWIN DRIVE, UNIT 7-8
MISSISSAUGA, ON L5L 3S4
416-828-7450

ACME PRODUCTS CO.
P.O. BOX 582015
TULSA, OK 74158
918-836-7184

ALFA LAVAL SEPARATION INC.
955 MEARNS ROAD
WARMINSTER, PA 18974-0556
215-443-4000

A.M.L. INDUSTRIES, INC.
3500 DAVIDSVILLE ROAD
HATBORO, PA 19040
215-443-7878

APPLIED MEMBRANES INC.
110 BOSTICK BLVD.
SAN MARCOS, CA 92069
619-727-3711

AUTOTROL, AN OSMONICS COMPANY
5730 NORTH GLEN PARK ROAD
MILWAUKEE, WI 53209
414-238-4400

BARRETT CENTRIFUGALS
BOX 15059
WORCESTER, MA 01615-0059
508-755-4306

BIOTECH INTERNATIONAL, INC.
1005 WEST PARK ONE
SUGAR LAND, TX 77478
713-240-7880

BLASER SWISSLUBE INC.
WESTGATE INDUSTRIAL PARK
GOSHEN, NY 10924
914-294-3200

BOB BIRD SALES
2432 INGLEHILL POINT
BLOOMFIELD HILLS, MI 48304
313-642-4840

BUCKEYE INTERNATIONAL, INC.
2700 WAGNER PLACE
MARYLAND HEIGHTS, MO 63043
314-291-1900

CARBTROL CORPORATION
39 RIVERSIDE AVENUE
WESTPORT, CT 06880
203-226-5642

CAROL COMPANY
1362 W. 9TH STREET
UPLAND, CA 91786
909-981-2947

C & E SALES & SERVICE
1606 HULT STREET
EATON RAPIDS, MI 48827
517-663-1711

CECOR
102 LINCOLN STREET
VERONA, WI 53593
800-356-9042

CHEMICAL MANAGEMENT SYSTEMS
6256 N. TELEGRAPH ROAD
DEARBORN, MI 48127
313-562-5252

COMO INDUSTRIAL EQUIPMENT, INC.
P.O. BOX 1671
JANESVILLE, WI 53547
608-756-3838

COMPLIANCE SYSTEMS, INC. CSI
11 NEW ZEALAND ROAD
SEABROOK, NH 03874
800-678-2109

CULLIGAN INTERNATIONAL COMPANY
ONE CULLIGAN PARKWAY
NORTHBROOK, IL 60062
800-431-3260

DESALINATION SYSTEMS, INC.
1238A SIMPSON WAY
ESCONDIDO, CA 92029
619-746-4995
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address Details</th>
<th>City, State, Zip</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEXSIL CORPORATION</td>
<td>ONE HAMDEN PARK DRIVE</td>
<td>HAMDEN, CT 06517</td>
<td>203-288-3509</td>
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<tr>
<td>DOUGLAS ENGINEERING</td>
<td>1015 SHARY CIRCLE, SUITE 1</td>
<td>CONCORD, CA 94518</td>
<td>510-827-4100</td>
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<tr>
<td>DYNAMIC PROCESS INDUSTRIES</td>
<td>1900 WEST NORTHWEST HIGHWAY</td>
<td>DALLAS, TX 75220</td>
<td>214-556-0010</td>
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<tr>
<td>DYNATEC SYSTEMS</td>
<td>909 JACKSONVILLE ROAD</td>
<td>BURLINGTON, NJ 08016</td>
<td>609-387-0330</td>
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<tr>
<td>EBBCO, INC.</td>
<td>P.O. BOX 1913</td>
<td>WARREN, MI 48090-1913</td>
<td>313-268-7000</td>
</tr>
<tr>
<td>EDJETECH SERVICES</td>
<td>22036 FAIRGROUNDS ROAD</td>
<td>WELLINGTON, OH 44090</td>
<td>216-774-7007</td>
</tr>
<tr>
<td>ENCYCLON INC.</td>
<td>6705 14TH AVENUE</td>
<td>KENOSHA, WI 53143</td>
<td>414-654-0032</td>
</tr>
<tr>
<td>ENERVAC CORPORATION</td>
<td>700 FRANKLIN BLVD.</td>
<td>CAMBRIDGE, ON N1R 5S9</td>
<td>519-623-9890</td>
</tr>
<tr>
<td>ENGINEERED FILTERS, INC.</td>
<td>40100 GRAND RIVER, STE. D</td>
<td>NOVI, MI 48375</td>
<td>313-471-0199</td>
</tr>
<tr>
<td>ENVIRONMENTAL DYNAMICS CORP.</td>
<td>256 TERRACE BLVD</td>
<td>VOORHEES, NJ 08043</td>
<td>609-768-1100</td>
</tr>
<tr>
<td>ENVIRO-PROCESS SYSTEMS</td>
<td>P.O. BOX 731</td>
<td>BRONXVILLE, NY 10708</td>
<td>914-965-0599</td>
</tr>
<tr>
<td>EXAIR CORPORATION</td>
<td>1250 CENTURY CIRCLE NORTH</td>
<td>CINCINNATI, OH 45246-3309</td>
<td>513-671-3322</td>
</tr>
<tr>
<td>FACET QUANTEK, INC.</td>
<td>P.O. BOX 50096</td>
<td>TULSA, OK 74150-0096</td>
<td>918-834-2929</td>
</tr>
<tr>
<td>FLO TREND SYSTEMS, INC.</td>
<td>707 LEHMAN</td>
<td>HOUSTON, TX 77018</td>
<td>713-699-0152</td>
</tr>
<tr>
<td>FLOTTWEG</td>
<td>7095 INDUSTRIAL ROAD</td>
<td>FLORENCE, KY 41042-6270</td>
<td>606-283-0200</td>
</tr>
<tr>
<td>GENERAL INDUSTRIES INC.</td>
<td>716 SOUTH JOHN STREET</td>
<td>GOLDSBORO, NC 27530</td>
<td>800-899-0132</td>
</tr>
<tr>
<td>GLITSCH, INC.</td>
<td>P.O. BOX 3100</td>
<td>PARSIPPANY, NJ 07054-0918</td>
<td>201-299-9350</td>
</tr>
<tr>
<td>GRAVER WATER</td>
<td>2720 U.S. HIGHWAY 22</td>
<td>UNION, NJ 07083</td>
<td>201-964-2400</td>
</tr>
<tr>
<td>GREAT LAKES ENVIRONMENTAL INC.</td>
<td>465 VISTA</td>
<td>ADDISON, IL 60101</td>
<td>708-543-9444</td>
</tr>
<tr>
<td>GREAT LAKES PUMP &amp; SUPPLY CO.</td>
<td>2442 E. MAPLE</td>
<td>FLINT, MI 48507</td>
<td>313-743-7451</td>
</tr>
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</table>
HIGHLAND TANK & MANUFACTURING CO.
ONE HIGHLAND ROAD
STOYSTOWN, PA 15563
814-893-5701

THE HILLIARD CORPORATION
100 WEST FOURTH STREET
ELMIRA, NY 14902-1504
607-733-7121

HOFFLAND ENVIRONMENTAL,
INCORPORATED, ACS ENVIRONMENTAL
303 SILVER SPRING ROAD
CONROE, TX 77303
409-856-4515

HUCKINS & ASSOCIATES
19818 MACK AVENUE
GROSSE POINTE, MI 48236
313-886-2792

HUDSON INDUSTRIES
BOX 2221
HUDSON, OH 44236
216-487-0668

H. V. BURTON CO.
30419 INDUSTRIAL ROAD
LIVONIA, MI 48150
313-261-4220

HYDE PRODUCTS, INC.
28045 RANNEY PARKWAY
CLEVELAND, OH 44145
216-871-4885

HYDROFLOW INCORPORATED
ONE NORTHWESTERN DRIVE
SALEM, NH 03079
603-898-3388

ILLINOIS WATER TREATMENT COMPANY
P.O. BOX 560
ROCKFORD, IL 61105-0560
815-877-3041

INDUSTRIAL FILTERS COMPANY
9 INDUSTRIAL ROAD
FAIRFIELD, NJ 07004
201-575-0533

INLAND TECHNOLOGY INC.
2612 PACIFIC HIGHWAY EAST
TACOMA, WA 98424
206-922-8932

INTERNATIONAL LUBRICANTS, INC.
P.O. BOX 24743
SEATTLE, WA 98108
206-762-5343

INTER-SOURCE RECOVERY SYSTEMS, INC.
1470 SOUTH 8TH STREET
KALAMAZOO, MI 49009-9396
616-375-5100

IRMCO
2117 GREENLEAF STREET
EVANSTON, IL 60202
708-864-0255

JAMES E. GIESSEL
P.O. BOX 160
WATERS, MI 49797-0160
517-732-0926

JAY R. SMITH MFG. CO.
2781 GUNTER PARK DRIVE EAST
P.O. BOX 3237
MONTGOMERY, AL 36109-0237
205-277-8520

JESSE W. EAKIN'S CO.
13040 CAPITOL AVENUE
OAK PARK, MI 48237
313-548-4855

J. NEILL & ASSOCIATES
7521 LAHRING
GAINES, MI 48436
313-735-7929

J.S. MANNOR MACHINE CORPORATION
427 EAST JUDD STREET
WOODSTOCK, IL 60098
815-338-8700
VAN AIR SYSTEMS INC.
2950 MECHANIC STREET
LAKE CITY, PA 16423
814-774-2631

WATER CYCLE
14 HUGHES, SUITE B-100
IRVINE, CA 92718
714-587-8660

WILLIAM A. DALEE, INC.
28690 SOUTHFIELD ROAD
SOUTHFIELD, MI 48076
313-569-3569

ZENON ENVIRONMENTAL SYSTEMS INC.
845 HARRINGTON COURT
BURLINGTON, ON L7N 3P3
416-639-6320