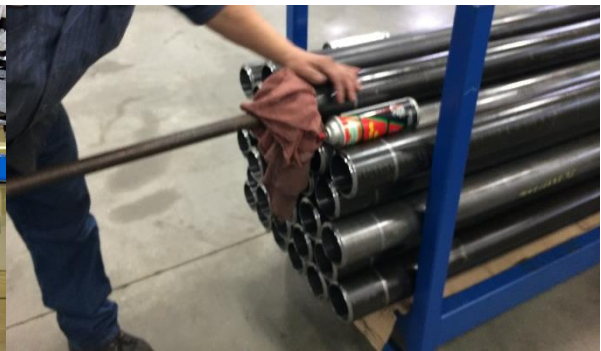




FINDING SAFER PRODUCTS THAT WORK



Best Practices For Finding Products That Promote Better Air Quality And A Safer Work Environment

Finding safer products that work is never an easy task. The products listed in the tables below are considered by MnTAP to be free of Hazardous Air Pollutants, and have reasonably low ozone (smog) generation potential.

BEST PRACTICES:

- Look for products that say: Non-Chlorinated Low VOC, 50 State Compliant or Non-Chlorinated.
- Stay away from chlorinated or non-flammable brake cleaners.
- Look at the SDS sheet to determine if the product contains Hazardous Air Pollutants (HAP's) like xylene, toluene, ethyl benzene, or methanol. There are other chemicals that are not HAP's but are on the Minnesota Department of Health - Chemicals of High Concern list that should also be avoided.
- Minimize [HAP's](#), Chemicals of High Concern, [ozone potential](#), and VOC content. Find products that can be sold in bulk and invest in refillable cans.

PENETRANTS:

Product	Active Ingredient	VOC%	Ozone (lbSOzone/ lbSProduct)
WD-40 Multi-Use Aerosol	Hydrocarbon	49.5	0.32
Liquid Wrench L104	Hydrocarbon	0.14	0.32
CRC Power Lube 5005	Hydrocarbon	0	0.43
Liquid Wrench L112	Hydrocarbon	0	0.78
Zep 45 Dual Force 374301	Hydrocarbon	0.19	0.94
Sea Foam Deep Creep DC-14	Hydrocarbon / Alcohol	0	0.87
WD-40 Dirt and Dust Release	Heptane	93.2	0.89

MnTAP pilot project companies reported achieving satisfactory results with the highlighted products.

BRAKE CLEANERS AND DEGREASERS:

Product	Active Ingredient	VOC%	Ozone (lbs _{Ozone} / lbs _{Product})
Pyroil NonVOC Non-Chlorinated PYNVOC15	Acetone	0	0.34
O'Reilly Ultra Low VOC 46580	Acetone	7.5	0.38
Gunk M709	Acetone	9	0.39
CRC Brakleen 05050	Acetone	9.2	0.44
Mag1 BPC Non-Chlorinated MG750579	Acetone	25	0.54
Mag1 BPC Non-Chlorinated MG750409	Acetone/ Heptane	38	0.59
Talon 45% VOC Non-Cl #070	Acetone/ Heptane	45	0.66
LPS TriFree Brake Cleaner	Acetone/ Heptane	41	0.73
Parts Master Brake & Parts Cleaner #0732	Heptane / Acetone	53.5	0.72
Cyclo Ind. C108C Low Odor	Heptane / Acetone	45	0.73
IBS, Inc. Whereever Brake Parts Cleaner #74111	Heptane / Alcohol	96	1.04
Parts Master Brake & Parts Cleaner #0734	Heptane / Alcohol	96	1.07
Simple Green 13000-14B	Aqueous Surfactant	0.25	0
Zep Tuff Green 0650	Aqueous Surfactant	0	0
Dubois Treo General Purpose Cleaner DUB000343	Aqueous Surfactant	0	0
Oil Eater Cleaner Degreaser AOD3235362	Aqueous Surfactant	4.8	0.14
SuperClean Degreaser SDS 5/14/15	Aqueous Surfactant	5	0.14
Zep Purple Cleaner ZU0856	Aqueous Surfactant	3.98	0.21
Simple Green MAX Automotive 43260-15A	Aqueous Surfactant	0.5	0.23
Clean-rite Purple Power 4315PS	Aqueous Surfactant	0.2	.11
BioRem - 2000 Surface Cleaner 8008-005	Microbes / Enzyme	0	0

MnTAP pilot project companies reported achieving satisfactory results with the highlighted products.

If you need additional help sorting through your current supplies, or making changes to better alternatives, contact MnTAP by email at mntap@umn.edu or call our main phone line 612-624-1300 or 800- 247-0015 from Greater Minnesota.

About MnTAP



A program of the University of Minnesota, MnTAP offers a variety of technical assistance services to help Minnesota businesses implement industry-tailored solutions that maximize resource efficiency, prevent pollution, increase energy efficiency, and reduce costs. Our information resources are available online at <mntap.umn.edu>. The University of Minnesota is an equal opportunity educator and employer. © 2016 MnTAP.