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What are VOCs?

And How You Can Protect Yourself From Them

Not too long ago our focus was on outdoor air pollution. However, various studies have shown that indoor air can be many times worse and volatile organic compounds (VOCs) are common contributors to this. Here's what you need to know about these pollutants.

WHAT IS A VOLATILE ORGANIC COMPOUND (VOC)

A volatile organic compound is a chemical containing carbon that becomes a gas at room temperature. They are found in plastics, personal care products, paints and solvents. Newer items off-gas, or emit, VOCs at a higher rate. This is where we get the "new car" smell and other scents after a renovation or furniture replacement.

COMMON VOCs AND RISKS

Because VOCs are emitted slowly and have health effects from long term exposure, research is ongoing. The list is long,

but here are three of these VOCs and their health impacts.

Benzene has a sweet odor and is very flammable. It occurs in nature and is commonly used in the manufacturing processes of plastics, resins, fibers, lubricants, rubber, drugs, detergents and dyes. Due to its expansive use, it is one of the highest produced chemicals in the US. Unfortunately, benzene is a known carcinogen (cancer-causing substance) and affects the immune and nervous systems.

Formaldehyde is a pungent chemical and is used for fertilizers, paper production, some resins and as a preservative in cosmetics, certain foods, antiseptics and medication. It is also produced in small amounts by the human body but too much exposure can lead to cancer. In addition, it affects the lungs, skin, immune system and digestive system.

Cont'd on page 2



Lavone Merkel
\$100



Beth Torrence
\$50

Newsletter Winners

What Are VOCs

Cont'd from page 1

Acetone is present in the environment and is produced from manufactured processes. It is used for plastic, fibers, drugs and to dissolve substances. This ability to dissolve makes it useful as a nail polish remover, which is a common use. It occurs in the break down of body fat but excess exposure affects the blood and nervous systems.

HOW TO MINIMIZE EXPOSURE

The best way to reduce exposure is through increased ventilation which removes contaminated air and replaces it with fresh outside air. Opening windows more frequently in mild weather is one way to reduce VOC buildup but this may cause issues if you have allergies and isn't practical during extreme weather.

Your HVAC system should be optimized to provide enough ventilation through exhaust and fresh air supply that is filtered and conditioned. Without this, the buildup of VOCs will have detrimental effects on your family's health.

If you're concerned about VOCs and want to improve the air quality in your home, give us a call and we can help with your ventilation system to keep your family healthy.

Is Dust a Problem in Your Life?

Dust is a nuisance in any home or office, but when you live or work on a gravel road, it can be even worse.

Climate Control now has two great products to take control of the dust on your gravel roads.

To learn more about Roadsaver and PennzSuppress, give us a call and we will be happy to provide you with a FREE quote for a solution that's right for you!

There is no reason to suffer through another summer of dust covered everything in your home or office!

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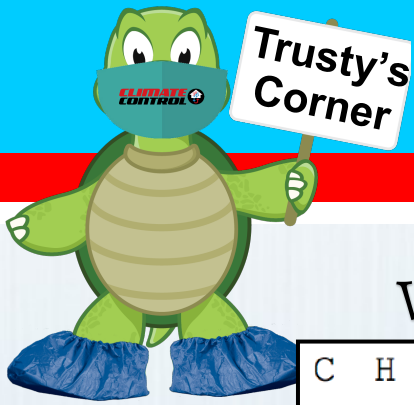
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WORD SEARCH

C	H	E	M	I	C	A	L	N	R
E	L	M	G	B	F	W	O	I	O
D	X	Z	E	A	N	I	A	W	K
N	H	P	M	T	T	E	A	E	G
L	X	I	O	U	S	K	P	A	S
L	L	K	L	S	X	Y	J	T	A
Y	M	L	M	I	U	I	S	H	G
C	O	E	X	U	I	R	W	E	V
P	H	T	L	A	E	H	E	R	H

POLLUTION

GAS

FAMILY

HEALTH

CHEMICAL

EXPOSURE

AIR

SYSTEM

WEATHER

ANSWER KEY:

<p>American News (605) 225-9822</p> <p>Your Comfort... our specialty!</p>		<p>DESIGN CONTEST</p> <p>I better call Climate Control!</p>	<p>Artist: Amelia H.</p>
<p>a couple days later</p>		<p>a white later</p>	<p>Grade: 5th</p>
			<p>School: Aberdeen Christian</p>
			<p>Teacher: Mrs. Nell</p>

Each year when we receive our Design an Ad participants artwork, we include them in our newsletter. In addition to sharing them here, we send a monetary gift to the teacher's classroom to help with supplies, and the student receives a gift card for a local business. We hope you enjoy the artwork as much as we do!



How do you keep warm in a cold room?

You go to the corner, because its always 90 degrees!



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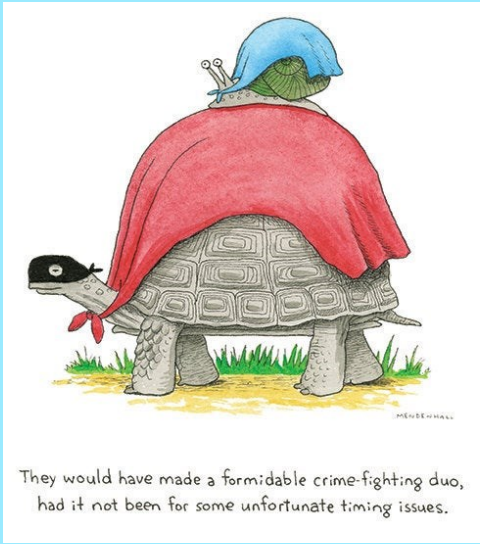


CLIMATE CONTROL

1910 130th St NW
Aberdeen, SD 57401

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They would have made a formidable crime-fighting duo, had it not been for some unfortunate timing issues.

WIN \$100 WITH CLIMATE CONTROL

Limit 1 entry per person. No purchase necessary. A purchase will not improve your chances of winning. Winner will be selected at random within 30 days of entry deadline. All decisions are final. All entrants agree to contest rules, which require winner to sign a prize and publicity release unless precluded by law. Must be 18 to enter. Failure to comply results in disqualification. Entries void if incomplete or illegible. No responsibility is assumed for lost, late, or illegible entries. Company employees and family members are ineligible. Odds depend on the number of entries received. Acceptance of the prize implies consent to use name and image in promotional material with the prize as compensation. All taxes are the responsibility of the winner.

Complete and return for a chance to win \$100 cash. If you correctly answer the three questions below, we'll enter you in a drawing for \$100 cash. Second prize will be \$50 cash. All entries must be received by 5/10/2020 Mail to: Climate Control, 1910 130th St. NW, Aberdeen, SD 57401 or scan and email to info@climatecontrolprofessionals.com

- 1.) Increased ventilation helps reduce _____ buildup.
- 2.) Three common VOC's are _____, _____, _____.
- 3.) Trusty's _____ makes now the best time to replace your furnace and air conditioner!

Please Contact me about:

- | | |
|--------------------------------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> Service Maintenance Agreement | <input type="checkbox"/> Air Filtration |
| <input type="checkbox"/> Upgrading Heating/Cooling Equipment | <input type="checkbox"/> UV Light |
| <input type="checkbox"/> Dehumidifier | <input type="checkbox"/> Water Softeners |
| <input type="checkbox"/> Humidifier | <input type="checkbox"/> Water Heaters |
| <input type="checkbox"/> All Types of Boilers | <input type="checkbox"/> Fire Pits |
| <input type="checkbox"/> Air Quality/Mold Testing | <input type="checkbox"/> Fireplaces (wood, gas, electric) |
| <input type="checkbox"/> Radon Testing/Removal | <input type="checkbox"/> Pool Heaters |
| | <input type="checkbox"/> Dust Control |
| | <input type="checkbox"/> Ice Melt |
| | <input type="checkbox"/> Electrical |

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