

SEPTEMBER 2017

SAFETYZONE MAGAZINE

The High Cost of Exposing Workers to Chemicals at Point of Use

AGF Manufacturing
Launches
PURGENVENT™
Air Venting Valves

SciMatCo
pg.40

Marijuana and Workplace Safety:

It's Getting Very Serious



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It's not the battery type, it's the sensing technology

Gas Clip Technologies' continued development and refinement of **advanced low-power photometric infrared technology** for LEL detection of hydrocarbon gases has made gas detection simpler and safer than ever. Non-infrared (pellistor/catalytic bead) LEL sensors, like those used for LEL detection in most current multi gas detectors, contain a bead with a filament which has to heat up to detect gas. That continual heating process takes an enormous amount of energy which quickly depletes the detector's battery. By the end of a shift the battery is drained and has to be recharged. The **Multi Gas Clip Simple** uses a **low-energy infrared beam of light** inside the LEL sensor to detect gas. This innovative technology has an extremely low drain on the battery which allows it to last for months instead of hours.

How the Multi Gas Clip Simple works in inert environments

Detectors that use pellistor/catalytic bead type LEL sensors require oxygen to be present to perform the necessary heating process to detect combustible gas. The **Multi Gas Clip Simple**'s infrared LEL sensor needs no oxygen to detect combustible gas. **It detects with an infrared beam of light**, so there is always an accurate reading in oxygen enriched or oxygen depleted environments.

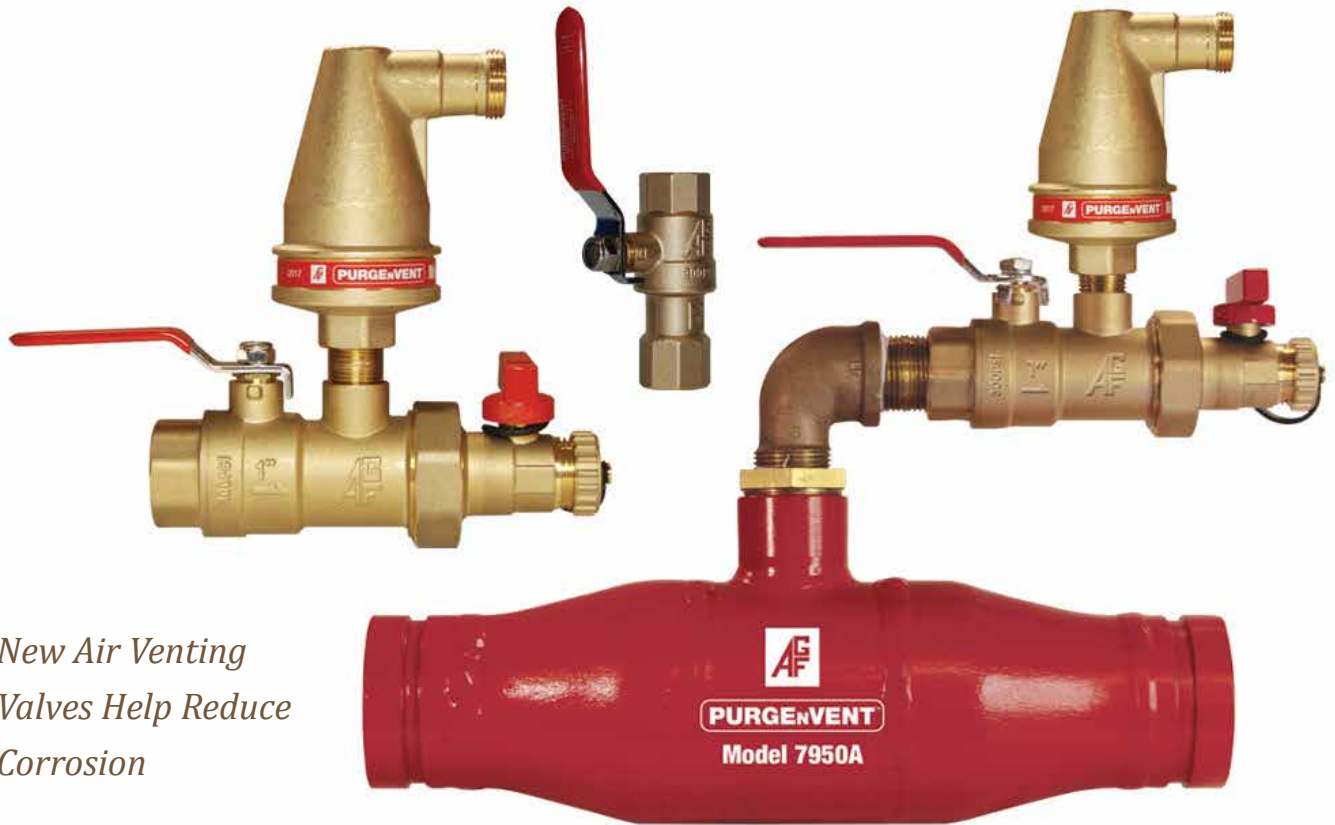
Benefits of the infrared LEL sensor

Key disadvantages of the pellistor/catalytic bead LEL sensor include: the sensor's fragile bead and filament could break if the detector is accidentally dropped, it has a tendency to heat up and burst when suddenly exposed to high levels of gas and it can be poisoned over time with exposure to typical sensor poisons such as H_2S or silicones. The infrared LEL sensor in the **Multi Gas Clip Simple** **has no fragile filament or bead to break, burst or get poisoned.** The continuous self-test function and fail-to-safe features of the infrared LEL sensor provide assurance of protection. **If the infrared LEL sensor is unable to detect gas for any reason, the detector immediately notifies you.** With the **Multi Gas Clip Simple**, you will know that you are always protected.

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AGF Manufacturing Launches PURGENVENT™ Air Venting Valves



*New Air Venting
Valves Help Reduce
Corrosion*

AGF Manufacturing Inc., a designer and manufacturer of specialized fire sprinkler products and components, announced the launch of their newest product line, PURGENVENT™. PURGENVENT™ Air Venting Valves are designed to remove excess air from sprinkler pipes to meet and/or exceed the new venting requirements established in NFPA 13 (2016).

Remove Oxygen, Reduce Corrosion

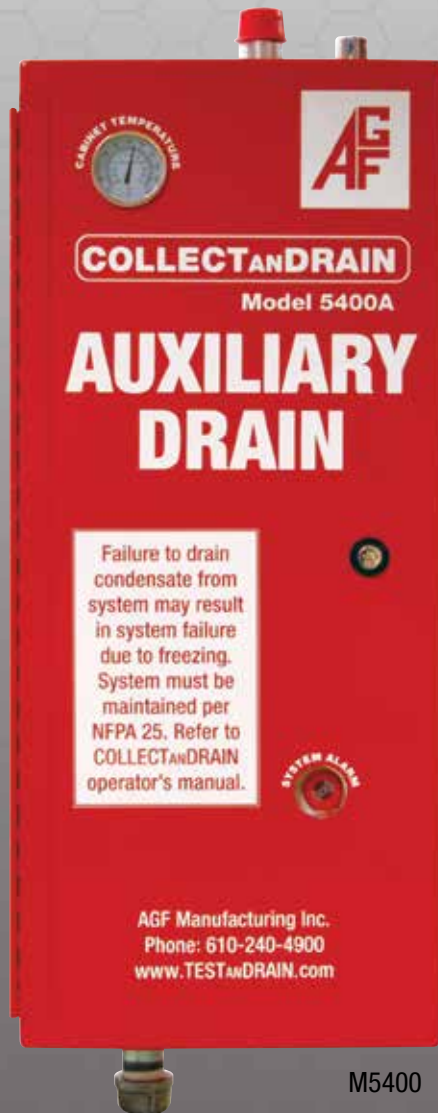
Corrosion occurs when the oxygen trapped within fire sprinkler systems interacts with water or moisture and the metal pipes. Left unchecked, corrosion can develop into major failures costing millions in damages. With corrosion-related failures in fire sprinkler systems on the rise, and after much review on corrosion and corrosion reduction by NFPA 13 technical committees, the NFPA has added air venting requirements to the NFPA 13 (2016) standard.

Simple, Robust Technology with Built in Purge Valve

Designed to work alone or in tandem, PURGENVENT™ Air Venting Valves are designed to remove the oxygen trapped in the system to reduce corrosion activity. PURGENVENT™ valves come in three different models. Each model allows for the simple purging and venting of trapped air - reducing the potential for corrosion in wet fire sprinkler systems. The PURGENVENT™ Air Venting Valve product line includes both manual and automatic models - Model 7910MAV (Manual Air Venting Valve), Model 7900AAV (Automatic Air Venting Valve), and Model 7950ILV (Inline Air Venting Valve).

FREEZE PROTECTION

FOR DRY FIRE SPRINKLER SYSTEMS



M5400

Frozen auxiliary drains are the main cause of dry fire sprinkler system failures in the winter. This year stop replacing the auxiliary drains that freeze and break with auxiliary drains that freeze and break.

AGF's COLLECTANDRAIN® Model 5400 eliminates freeze-ups by providing a temperature controlled environment for the auxiliary drain increasing their capacity to collect condensation in the winter. Now is the time to install a Model 5400 so colder temperatures won't put your dry fire sprinkler system at risk.

COLLECTANDRAIN®

AUXILIARY DRAINS



M5100ALBV



M5150ALBV



M5300ALBV



M5300



M5100



M5200

www.collectandrain.com

PURGENVENT™ Model 7910MAV (Manual Air Venting Valve) is a ½" ball valve with integral strainer and ball check. This manual valve is designed to allow for the venting of air while the system is filling.

PURGENVENT™ Model 7900AAV (Automatic Air Venting Valve) is a 1" ball valve with integral isolation valve, strainer, purge valve and automatic air vent. This single body valve with hose threads on the purge valve is designed to allow for the rapid purging of air from the pipes as the system is filling, and the automatic venting of air once the system is operational.

The PURGENVENT™ M7950ILV (Inline Air Venting Valve) was developed for use in systems with location restrictions. The M7950ILV utilizes an inline specially designed air/water separation chamber with an air scoop to aid in the separation of air from water during system filling and testing. The separation chamber's larger diameter allows

water entering the chamber to expand momentarily and separate from the air which is then scooped into the venting assembly to be released by the M7900AAV.

Compact Size for Easy Serviceability and Installation Flexibility

PURGENVENT™ Air Venting Valves are the smallest air venting valves in the market. Their compact size allows for easier installation and greater flexibility in placement.

For more information about PURGENVENT™, visit www.purgenvent.com or contact AGF Manufacturing at 610-240-4900.

About AGF Manufacturing Inc.

AGF is the designer and manufacturer of the most reliable and versatile line of inspector's test and drain valves, auxiliary drains, corrosion monitors, air venting valves, and accessories in the fire sprinkler industry.

AGF is continually working in the field to improve existing products and deliver innovative, reliable, and code compatible fire protection products for commercial and residential fire sprinkler systems worldwide. Our family of products include: TESTANDRAIN®, COLLECTANDRAIN®, CORRINSITE™, PURGENVENT™, REMOTETEST®, INSPECTORSTEST™, RISERPACK™, and TESTANSAVE™.

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those sites are in compliance with your Global EHS compliance and
risk programs?



Topic	Question ID	Audit Questions	Auditor Guidelines
CheckPoint® Office Audit Protocols Environmental Health And Safety	CHICAGO-Alarm Compliance	Alarm Systems -	
2	OFFICE: ALARM SYSTEMS OFF-130.1.US	1. Does the facility have an employee alarm system? Cite: 29 CFR 1910.39(a); 29 CFR 1910.155	An employer must have and maintain an employee alarm system that is able to be heard, seen, or otherwise perceived by everyone in the workplace. The employee alarm system must be distinctive and recognized by all employees as a signal to evacuate the work area or perform actions identified in the ERP/SAP.
3	OFFICE: ALARM SYSTEMS OFF-130.2.US	2. Is the employee alarm system tested annually? Cite: 29 CFR 1910.155(b)(6)	Employee alarm systems must be tested at least annually for reliability and adequacy.

G. AUDIT QUESTIONS						
Date: _____						
Facility: _____						
Auditor: _____						
Question ID	Audit Questions	Auditor Guidance And Notes-Audit Questions	Y E S	N O	N A	Comments
ERGONOMICS						
OFF-140.1.US	1. Are workstations configured so that employees can achieve ergonomically correct working postures?	Workstations should be configured to prevent common ergonomic problems. The computer keyboard and mouse should be within easy reach and at a comfortable height (elbow high), the keyboard and monitor should be aligned, and the screen should be at or slightly below eye level. There should be no underfoot clutter.				
OFF-140.2.US	2. Are chairs used at workstations adjustable and in good condition?	Chairs should be so that employees can work in a comfortable seated position, with good body support. Chair height should allow feet to rest flat on the ground with thighs parallel to the				

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Ammonia Gas Detectors for Harsh Environments

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CTI designs, manufactures, and sells service gas detection equipment that protect people and property from dangerous gas leaks and assure compliance to all current codes and regulations regarding the handling of

these gases. When you call CTI, a real person will answer the phone, providing quick access to experienced staff members (including technicians and engineers), for technical assistance on gas detection system design and support.

The products are manufactured in house in Columbia, MO, allowing CTI to control quality and keep their products in stock for fast response times for customers. They strive to ship out products within 1 day of receiving orders, rivaling all other gas detection manufacturers. The quick turnaround on parts, and excellent product support have made CTI an industry leader in providing gas detection products in the USA and abroad.

CTI was founded in 2004 by brothers Brian and Kevin EuDaly, after noticing a need for gas detection equipment that could stand up to the extreme conditions experienced in most food processing and cold storage facilities. The once small business has grown exponentially every year since, as has their innovative product line. The same qualities that helped the business jump start in 2004, have led to immense growth and product development, retaining existing customers and rapidly expanding their customer base. The family atmosphere of the once small business, has been passed down to employees, leading to a loyal customer base that trusts the manufacturer of life safety equipment.

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The product line was developed to overcome the failure of standard gas detection equipment when exposed to extreme temperatures, moisture, cleaning chemicals, and cross sensitivity from other gases. Industrial facilities often experience false alarms, increased maintenance costs, and frustration with gas detectors designed more for commercial environments. These issues led CTI to focus on building a product line of gas detection equipment that functions properly in extreme conditions. The engineers, chemists, and production experts are constantly listening to feedback from customers and designing new and innovative products that solve problems experienced in industrial environments.

CTI gas detectors are built for the

harshest environments and thrive in conditions where other sensors fail. They can handle hot, wet, cold and harsh environments without breaking down or setting off unwanted alarms. Built food industry tough, they can handle extreme temperature swings that occur in cleaning and defrosting processes. Circuit boards and components are potted in a water-proof, rugged potting compound that provides protection from not only sprayed water and chemicals, but also from destructive corrosion caused by long-term exposure to moist, damp environments.

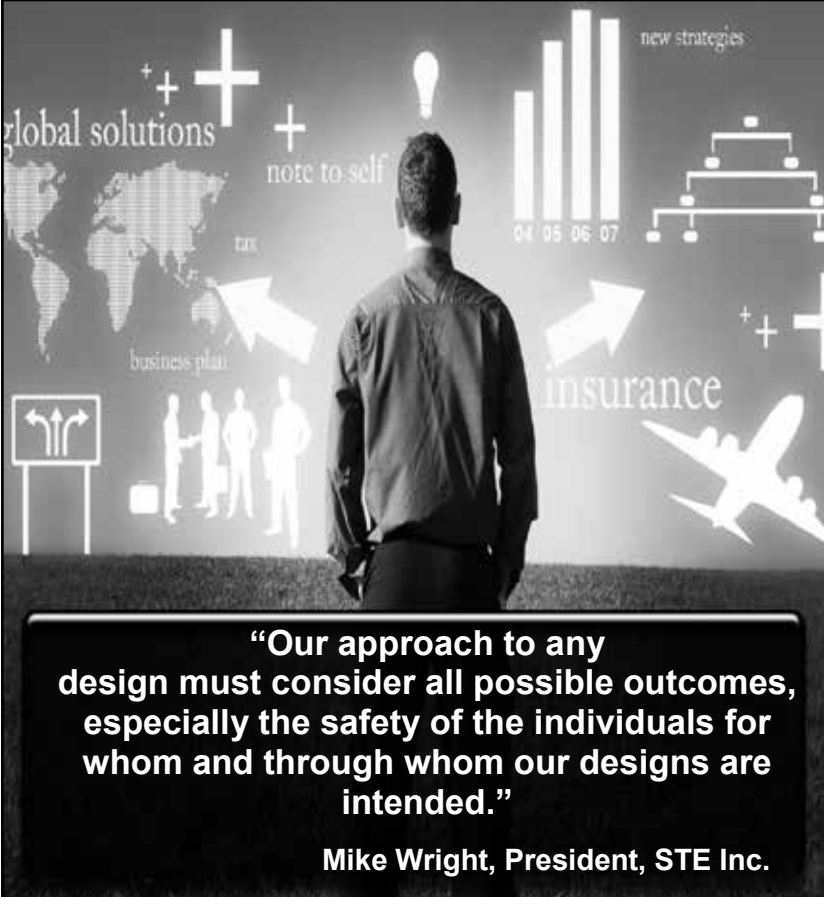
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Nixalite® Today

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Nixalite started in a humble garage back in 1950. Now, Nixalite of America Inc offers hundreds of effective and humane products for the exclusion or dispersal of pest birds and nuisance animals. These include the surface sanitizers and disinfectants needed to protect people and property from the ugly and unhealthy results of unchecked bird and animal infestations.

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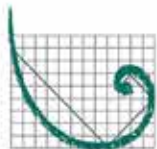
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Revised Ambient Air Monitoring Quality Assurance Requirements

ABSTRACT

The revised air monitoring quality assurance requirements are EPA's first comprehensive changes to the air monitoring rules since 2006. These changes formalize many changes that had been informally adopted by Agency memorandum and guidance documents. Many of the changes were driven by improved monitoring technology—such as continuous particulate matter analyzers—that were not commonly available at the time of the previous update.

The revised rules also revert to the pre-2006 structure whereby state and federal monitoring program requirements are set out in Appendix A, with industrial PSD monitoring requirements specified in Appendix B. EPA provides a summary of the changes at the following URL:

https://www3.epa.gov/ttnamb1/files/ambient/pm25/Summary_of_Appendix_A_Changes_1003_25_2016.pdf

ARTICLE

Key Changes

The revised regulation once again separates the quality assurance requirements applicable to state and federal monitoring programs from those for industrial PSD monitoring. This change recognizes the many differences in the objectives and implementation approach between the state and industrial monitoring programs. Other significant items include:

- Increased emphasis on the role and responsibilities of the Primary Quality Assurance Organization (PQAO)
- Requirement that EPA be provided a courtesy copy of an organization's Quality Assurance Project Plan (QAPP), even if that PQAO has been delegated QAPP review authority by EPA.
- Clarification of the applicable system and performance audits and required frequency for each type of monitoring program
- Updated calibration and audit ranges for gaseous analyzers

Impacts On Existing Monitoring Monitoring Programs

Marijuana and Workplace Safety:

It's Getting Very Serious

The train had only left the station 18 minutes prior to striking a backhoe, killing two track workers, derailling, and hospitalizing 41 individuals. Nearly a year later the investigation is ongoing and causes are still under debate. But a report released in early 2017 reveals that all three individuals involved in the crash in Pennsylvania, the engineer and the two track workers, all tested positive for drug use. While drug use is not believed to have been the primary cause of the accident, any positive drug test is an immediate red flag in such a safety-sensitive industry. Amongst oxycodone and cocaine, one of the individuals tested positive for marijuana.

Such stories are still rare and still cause us to pause. Fortunately, in this incident, although there were many injuries, no passengers died. Unfortunately, it was not the first time and may not be the last time that impaired workers are on the job. Drug use is on the rise in the United States. As popular opinion has shifted from "War on Drugs" to "Everybody's Doing It" it is no wonder that accidents are on the rise. The pro-marijuana movement has surged to new heights of success since the turn of the millennium. Before 2000, only four states and the District of Columbia had medical marijuana laws. Today that number has reached 28 and that is not counting those states that have marijuana oil laws like in Georgia. And in just four years, eight states and DC have legalized marijuana for recreational purposes.

Marijuana Use On the Rise... And So Are the Consequences

Concurrently, more Americans are trying marijuana than ever before. Taboos and inhibitions surrounding drug use are on

the decline. The National Survey on Drug Use and Health indicates that drug use is on the rise for all age groups, including for marijuana. In 2008, 8.1 percent of those 12 and older were current marijuana users. By 2014, that percentage had risen to 10.2 percent. While that may only be a couple of percentage points difference, it represents approximately 22 million people who use marijuana on a regular basis (at least once in the past 30 days).¹ This is backed up by a recent Gallup poll that showed that in 2016 about 1 in 8 American adults say they smoke marijuana. That's nearly double the number who said the same thing in 2013 (7 percent in 2013 and 13 percent in 2016).² Also, according to Gallup, support for marijuana legalization is the highest it has been in the 47 years that it has been conducting surveys on the topic. In their late 2016 survey, 60 percent of Americans said they support legalizing marijuana.³

And these are not the only statistics on the rise. From 2007 to 2014, the number of nighttime weekend drivers with marijuana in their system in the U.S. increased nearly 50% (from roughly 8 percent to 13 percent).⁴ In the state of Washington, the percentage of drivers involved in fatal crashes who had recently used marijuana more than doubled from 2013 to 2014 (from approximately 1 in 12 to 1 in 6).⁵ And while some may argue that marijuana-impaired driving is not as big a deal as alcohol-impaired driving, the facts do not change: impaired driving is more dangerous than non-impaired driving.

And as we saw in last year's train accident in Pennsylvania, as attitudes relax and drug use increases, workplace safety and public safety suffer.

Medical or Recreational, Marijuana Poses a Safety Risk

There are 483 known compounds in marijuana. Of those compounds, 65 are cannabinoids – chemical compounds that alter neurotransmission in the brain. Tetrahydrocannabinol (THC) is the principal psychoactive compound (cannabinoid) in marijuana and is responsible for all the classic "high" effects of marijuana use. This includes feelings of euphoria, sleepiness, anxiety, and psychosis. Another important cannabinoid is cannabidiol (CBD). Unlike THC, CBD provides no feelings of being "high" or "stoned." It doesn't provide feelings of euphoria. In fact, it counteracts the sleepiness, anxiety, and psychosis caused by THC.

These two substances represent two very different approaches to marijuana legalization: marijuana as medicine (CBD) and marijuana as "good fun" (THC). Either way, there are risks involved. Whether someone is honestly sick and seeking relief or bored and seeking escape, marijuana in the workplace is dangerous. This is supported by the documented effects of THC and CBD, as well as by the fact that an unregulated market leads to sick people getting THC strains when they really should be using CBD strains. Before showing how this impacts the workplace, let us look at the science behind these two compounds.

THC: Supposed Benefits and Established Risks

While one may reasonably conclude that a medicine that causes anxiety and psychosis is not worth trying, others may argue that the benefits outweigh the negatives. THC imitates a neurotransmitter that occurs naturally in the body

(anandamide), which regulates sleep, hunger, and pain perception. As such, there is evidence that THC can be used to reduce nausea, vomiting, and pain while increasing appetite. This would be beneficial to counteract some of the side-effects of chemotherapy or the symptoms of HIV/AIDS.

But THC isn't a benign substance. THC triggers the release of dopamine, creating feelings of euphoria. This effect of THC is the key reason that marijuana is one of the most widely abused drugs in the world. But, like any other drug, repeated and excessive amounts of dopamine may cause a dependency. This could lead users to rely on marijuana to stabilize and feel "normal." Additionally, THC interferes with the hippocampus, the part of the brain responsible for forming new memories. This leads to forgetfulness, which in turn interferes with work, school, and family life. Not to mention the possibility of psychosis, anxiety, and depression. According to the National Institute on Drug Abuse, THC can trigger a relapse in schizophrenic symptoms. Finally, THC can impair motor skills, making tasks like riding a bike or driving a car more difficult and dangerous for marijuana users and those around them.

CBD: Supposed Benefits and Potential Risks

CBD and THC have the same chemical formula, but because the atoms are arranged differently, CBD does not produce the same psychoactive effects or "high" that THC does. CBD can decrease pain, while stimulating appetite, just like THC, but without causing sleepiness, memory loss, and many of the other negative side effects of THC. In fact, CBD can counteract the psychoactive effects of THC, making it potentially useful for individuals suffering from schizophrenia, social anxiety, and depression.

While CBD is often considered less harmful than THC, it is not completely risk-free. CBD can affect the way the body metabolizes other medicines, since it neutralizes certain enzymes in the liver. Interestingly, it is because of this neutralizing effect that CBD can counteract THC when taken concurrently. It can also cause low blood pressure, light-headedness, and drowsiness. While these effects may not be as severe as those seen with THC, they can easily contribute to workplace accidents and injuries. CBD can also lead to dryness of the mouth or "cotton-mouth." This is because the re-

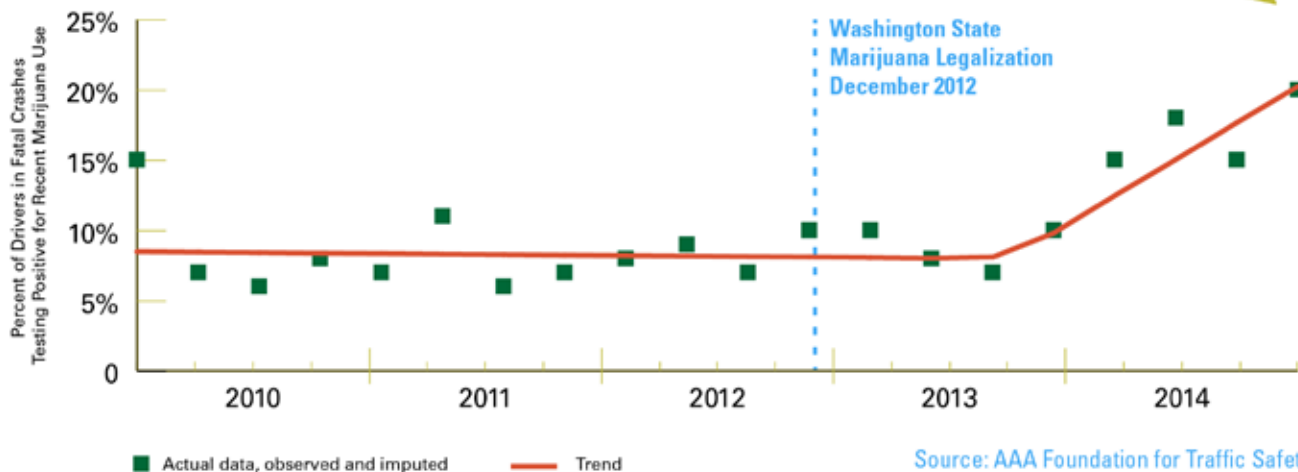
ceptors in the mouth that accept CBD are linked to saliva production. As well, there are conflicting studies concerning the effect of CBD on sufferers of Parkinson's disease. Some studies suggest that it may worsen tremors and muscle movement associated with the disease, while others suggest there is no risk.

THC and CBD: A Distinction Lost On Many

Since marijuana is a Schedule I controlled substance under federal law (meaning there is no legally recognized medical application for the drug), both THC and CBD are illegal substances. Because of this, research and information are limited. As well, regulations are non-existent. This lack of oversight often leads to high-THC strains being marketed and sold to medical patients. Even when medical marijuana shops carry both high-THC and high-CBD strains, untrained or unaware store clerks sometimes sell the wrong strain to patients. While being high on THC may bring temporary "relief" (due to being out one's mind so to speak), this kind of "relief" may create more problems than it temporarily distracts its users from. No matter which way you look at it, medical marijuana initiatives have managed to

Fatal Road Crashes Involving Marijuana Double After State Legalizes Drug

FATAL CRASHES INVOLVING DRIVERS WHO RECENTLY USED MARIJUANA DOUBLED IN WASHINGTON AFTER THE STATE LEGALIZED THE DRUG IN 2012.



put a dangerous substance into the hands of those who are sick, desperate, and willing to try anything to feel relief. And while compassion and understanding are welcome and valued traits, forgetfulness, anxiety, depression, psychosis, and reduced motor skills can lead to a myriad of other issues including accidents on the roads, rails, air, and in the workplace.

This lack of understanding about CBD and THC is dangerous. Of the 60% of Americans who support legalized marijuana, how many understand the different roles of CBD and THC and the dangers each may pose? Unless a medical marijuana user is very savvy, there is a distinct possibility that from week to week, his or her supply of medicine could go from relatively safe CBD to demonstrably dangerous THC. A dispensary clerk could unwittingly mix up high-THC and high-CBD strains or worse, not know the levels in each strain or have been trained on the different effects of THC and CBD. With unregulated labeling, usage and dosages of marijuana, a well-intentioned and well-informed patient could be mistakenly dosing herself with high levels of THC. And, because the laws are inconsistent, patients can sometimes grow their own marijuana. Again, unless they are aware of the differences and make sure to purchase high-CBD strains, they could be growing their own high-THC marijuana and ingesting it could cause more harm than good.

THC Concentration Rising

With the risks of high-THC strains of marijuana established, consider the following statistics. A report released in 2015 from Charas Scientific, one of the labs in Colorado certified to test marijuana potency, indicated that today marijuana potency averages around 20 percent THC (with peaks reaching 30 percent THC). That is a drastic shift since the 1980's when the average THC potency was around 4 percent.⁶ Even more unsettling is the increase in THC potency when compared to just a few years ago. According to the National Institute on Drug Abuse, in 2012 the average THC potency of marijuana confiscated by police was about 15

percent. In just three years, average marijuana potency grew approximately 33 percent.⁷ Combined with statistics showing that marijuana use is on the rise, this not only means there are more people using marijuana than ever before, but they are getting more of the psychoactive effects of marijuana than ever before. This means more employees coming to work impaired and more impaired than they would have been a decade ago.

Safety Hazards

Substance abusing employees are not safe employees. Marijuana may not be considered as dangerous as cocaine, meth, and bath salts, but it is not a benign substance either. Substance abuse problems can begin manifesting themselves in employee safety records. Statistics prove that substance abusing employees will be involved in more accidents than other workers, even though they are often not the ones who are injured. They also tend to display carelessness in the operation and maintenance of potentially hazardous materials or dangerous equipment.

Other safety-related signs of substance abuse may include:

- Risky behavior
- Increased involvement in off-the-job accidents
- Damaging equipment or property

This problem is not exclusive to jobs that are traditionally considered safety-sensitive. It may be obvious why someone impaired by marijuana should not operate a forklift or a jackhammer, but some may not immediately realize the danger when daycare workers, physicians, regional sales managers, and cooks are lighting up. Since marijuana impairs judgement and makes users feel like everything is alright, daycare workers who are high may not realize when infants and toddlers are in danger. Physicians may misdiagnose a critical condition as something more benign or neglect to correct submit a prescription to the pharmacy. A regional sales manager who drives from store to

store may cause an accident on the highway or inadvertently cause an accident when checking in on a warehouse. Cooks may mishandle knives or hot cooking oil or ignore food-safety rules. All of these create unsafe work environments, even in workplaces that are not usually considered safety-sensitive or that are not under federal safety regulations. More accidents mean more injuries, work stoppage, increased insurance premiums, direct healthcare costs, and even litigation.

Surely Not My Employees!

A recent *Monitoring the Future* study found that most parents suspected that their teens' friends and peers were using drugs, but claimed that their own children were not possibly using drugs. But it turned out that when these researchers asked teens, many of them were indeed using drugs.⁸ Many parents were shown to be ignorant to the reality of their teen's drug use because they just cannot believe that their own children could be using drugs. The same principle may be true of some employers. Many may recognize that marijuana is a problem in other companies, but surely it is not a problem in their workplace amongst their employees. But again, statistics support that they probably do have employees using marijuana. As established earlier, taboos surrounding drug use, especially marijuana, are eroding and more employees are lighting up than ever before.

According to the federal government, the number of drug users who are employed rose from 8.28 million in 2013 to 8.98 million in 2014. That means approximately 700,000 more drug users in the workplace in a single year. Concurrently, drug users who are unemployed dropped from 2.56 million in 2013 to 2.31 million in 2014. That means 250,000 of 700,000 people mentioned above were unemployed drug users, but found employment. That leaves around 450,000 employees who were not drug users in 2013 that began using or experimenting with drugs in 2014 and managed to keep their jobs.⁹

According to the National Council on Compensation Insurance, as many as 50 percent of all workers' compensation claims are related to the abuse of alcohol or drugs in the workplace. Drug users, as a group, use medical benefits at a rate eight times higher than non-users. Substance abusing employees also are absent from work more often than their non-substance abusing co-workers, often resulting in increased workloads for co-workers and decreased employee morale.

Conclusion

Employers have an obligation to provide safe work environments for their employees and customers. Marijuana is simply incompatible with this imperative. While it may be increasingly unpopular for employers to have drug-free workplace policies, facts do not shift with popular opinion. As marijuana use increases, so do accidents and injuries. This is not a problem that restricts itself to impaired driving. It affects workplaces and their

bottom lines too. It is not a problem that is limited to Washington, Colorado, and other states that have legalized the drug for recreational purposes. It is an issue that touches every corner of the nation and the world.

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The High Cost of Exposing Workers to Chemicals at Point of Use

The tip-and-pour method, as well as poorly designed pumps, can expose workers to injury and companies to significant financial losses

Every day industrial workers transfer potentially hazardous chemicals, such as solvents, acetones, lubricants, cleansers, and acids, from large drums into smaller containers, or into machinery. This transfer of chemicals at the point of use, however, can have serious consequences when manual “tip-and-pour” techniques or poorly designed pumps are used.

Whether the chemicals are toxic, corrosive, reactive, flammable, emit volatile organic compounds (VOCs), or are even potentially explosive, the danger of accidental contact, even for short periods, can pose a severe hazard to workers.

In addition to the potential for injury, there can also be serious financial ramifications for the facility involved. The risks include cost to treat injuries or perform cleanup, as well as workers’ compensation claims, potential liability, OSHA fines, loss of expensive chemicals and even facility/production shutdown.

“It can be catastrophic to a company if toxic or highly flammable material is accidentally released at the point of use,” says Deborah Grubbe, PE, CEng, and founder of Operations and Safety Solutions, a consulting firm specializing in industrial safety. “Companies have to assume that if something can go wrong during chemical transfer, it will, and take appropriate precautions to prevent what could be significant consequences.”

Spiraling Costs of Loss of Containment

Grubbe, who has 40 years of experience working in the chemical, oil and gas industries, including at DuPont, NASA, and for the U.S. military, says “Any time you lose containment; you have an issue that can spiral out of control.”



Corrosive chemicals, for example, can burn skin or flesh. Some chemicals are toxic when touched or inhaled. Cyanotic agents, for instance, can be particularly dangerous or even fatal, since they rob the body of oxygen.

Many chemicals are flammable as well and can be ignited by even the smallest spark from nearby motors or other mechanical equipment. “There is no such thing as a small fire in my business,” says Grubbe.

In addition to cost of cleanup or treating injuries, there are also indirect costs that can be incurred. These include supervisors’ time to document the incident and respond to any added government inspection or scrutiny, as well as the

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potential for temporary shutdown of the facility.

"The indirect costs can be as much as 2-4 times the direct costs," says Grubbe. "Not to mention potential liability, workers' compensation issues, regulatory fines or potential actions from OSHA or the EPA."

Chemical Transfer Techniques

Traditional practices of transferring liquid chemicals suffer from a number of drawbacks.

Manual techniques, such as the tip-and-pour method, are still common today. Tipping heavy barrels, however, can lead to overpouring or the barrel toppling.

"Some companies choose to transfer of chemicals manually, but it is extremely difficult to control heavy drums," cautions Grubbe. "I'd recommend against it because of the probability of a spill is so high."

Although a number of pump types exist for chemical transfer (rotary, siphon, lever-action, piston and electric), most are not engineered as a sealed, contained system. In addition, these pumps can have seals that leak, are known to wear out quickly, and can be difficult to operate, making precise volume control and dispensing difficult.

In contrast, sealed pump systems can dramatically improve the safety and efficiency of chemical transfer.

"A sealed, contained system is ideal when dealing with a toxic, flammable, or corrosive liquid," says Grubbe. "With sealed devices, like GoatThroat pumps, you can maintain a controlled containment from one vessel to another."

Small, versatile, hand-operated pressure pumps, such as those manufactured by GoatThroat Pumps, are engineered to work as a sealed system. The pumps can be used for the safe transfer of over 1400 industrial chemicals, including the most aggressive acids, caustics and solvents.

These pumps function essentially like a beer tap. The operator attaches the pump, presses the plunger several times to build up a low amount of internal pressure, and then dispenses the liquid. The tap is configured to provide precise control over the fluid delivery, from slow (1ML/ 1 oz.) up to 4.5 gallons per minute, depending on viscosity.

Because such pumps use very low pressure (<6 PSI) to transfer fluids through the line and contain automatic pressure relief valves, they are safe to use with virtually any container from 2-gallon jugs to 55-gallon drums.

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Adoption of Sealed Pump Systems

Although Design Mark Industries keeps its chemicals in a vented, explosion-proof room, the supplier of membrane switches, keypads, and touchscreens sought to further improve the safety and efficiency of transferring acetone and acetate-based chemicals from 55-gallon drums into quart and 5-gallon containers. The chemicals are used in the screen printing process of printed circuitry and graphic overlays.

Production Supervisor Vincent Francisco ruled out manual pouring because of the potential of injury and lack of control in dispensing. Instead, he utilized a variety of traditional pumps including rotary, siphon, and lever-action, but found them all unsatisfactory.

"I was replacing the pumps once or twice a year because they kept breaking down, delivered imprecise amounts, and were not designed as completely self-contained, sealed systems," says Francisco.

After considerable research online, Francisco decided to utilize a sealed chemical pump system from GoatThroat.

"I consider using [GoatThroat] pumps a 'best practice' technique because the barrels remain upright and the entire system is sealed so there is never an issue with exposure or VOCs when transferring chemicals," says Francisco.

According to Francisco, the sealed pump system is intuitive to use because it operates like a beer tap. "Just pump the plunger a few times, open the spigot and dispense. You have full control over how much is dispensed – even the tiniest amounts – or you can leave it open for a continuous flow. It delivers the precise amount needed."

Francisco adds that the pumps are built for longevity. Over the past 11 years, he estimates that his company has saved thousands of dollars by eliminating the cost of replacement pumps. "I've only replaced one of our three pumps over that time due to constant use, and we could have used it longer," says Francisco.

Allergy Laboratories Inc., a FDA licensed pharmaceutical manufacturer of biological extracts for the diagnostic testing and therapeutic treatment of allergies, also uses a sealed pump system to transfer acetone from 55 gallon drums to 1 gallon containers for a variety of processes.

According to Charles Cheek, facility manager for Allergy Laboratories, the pharmaceutical chemical delivery process must be very clean and no foreign material can be introduced into the acetone.

Because acetone is highly flammable, he was concerned about using an electric pump that could potentially create a spark. As a result, he decided to purchase a pump that had no electrical or moving parts that could create a hazard.

"We've found GoatThroat pumps to be a much safer way to transport chemical liquids," says Cheek, who utilizes a pneumatic adaptor accessory to supply pressure via in-house compressed air. "There is no spillage, splatter, overpouring, leaking, or VOCs because the system is self-contained. There is no sprayback and we do not get chemicals on our hands. It is a nice, clean delivery system."

Besides enhancing safety, Cheek says a sealed system can prevent loss of expensive chemicals like acetone. "I haven't lost any product due to the pumps. They eliminate evaporation, do not leak or drip and I can adjust the flow to get the exact amount I need without spilling or overflow."

Cheek says he also utilizes a GoatThroat pump to transfer comprehensive boiler water treatment solution to mitigate scale and corrosion of the boiler system.

Previously, he had to fill a glass beaker with the chemical, climb a ladder and pour the chemicals into the top of the tank.

Now, that work is performed with the help of the pump and 6' extension hose accessory to efficiently deliver the cleaning chemicals.

"Every time inspectors come in, they say we have the cleanest boiler they have seen," says Cheek. "With this chemical transfer system, I'm able to transfer exactly what I need to get the job done."

By Del Williams

Del Williams is a technical writer based in Torrance, California.

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SciMatCo, Scientific Materials Company, was formed in 1989 by the owners of Flinn Scientific, Inc. and is located in a 200,000+ square foot facility in Batavia, Illinois. The company mission is to provide the safest, most dependable safety storage cabinets available. Lawrence Flinn Jr., the founder of Flinn Scientific, maintained an intense focus on customers' needs and safety which continues to serve as the foundation of the company's success. Mr. Flinn's commitment to promoting safety led him to the research-based conclusion that safety cabinets made of wood—and not metal—provide significantly greater safety and value. Using construction guidelines established by OSHA, NFPA and UFC, Mr. Flinn worked with a local cabinetmaker to build wooden cabinets for the storage of corrosive or flammable materials. A product line was created and SciMatCo was formed as a wholly-owned division of Flinn Scientific, Inc. Today, Mike Lavelle leads Flinn Scientific and SciMatCo as chief executive officer.

Hired as one of SciMatCo's first principal employees, Tony Leben now serves as the company's vice president of manufacturing. Tony is responsible for all production management, as well as the company's international distribution network. As the company grew, SciMatCo's safety cabinet offering was refined and expanded to include models to suit virtually any



application—in all sizes and various configurations to safely store hazards of all types.

While SciMatCo's laser focus on safety spurs the company's growth, other manufacturers seem to ignore an obvious fact. The dangerous but widely unknown truth in the industry is that metal-constructed cabinets cannot safely store flammable materials. Why? Because metal quickly conducts heat! Inside a metal cabinet, the increase in temperatures from a fire outside the cabinet creates a huge risk of igniting the contents and actually fueling the fire! SciMatCo's exclusive wood construction is used on all flammable liquid storage cabinets because wood thermally insulates the contents from the heat and flames of a fire, keeping the contents cool and eliminating risk. The dense, 1-inch thick exterior-grade plywood used in SciMatCo cabinets, constructed to specifications mandated by OSHA, NFPA, UFC and UL, will withstand fire far longer, giving

emergency response teams more time to arrive. All SciMatCo flammable liquid storage cabinets have passed UL's very stringent testing and are UL Listed.

SciMatCo's corrosive material storage cabinets are constructed of wood or plastic that is non-reactive to the hazardous materials stored within them. SciMatCo's non-metallic construction will never rust, corrode or deteriorate so all materials stored within the cabinets stay safer and secure. SciMatCo offers wood-constructed corrosive storage cabinets that are partially lined with polypropylene on the shelf and floor of the cabinet, as well as wood cabinets with the entire interiors fully lined with polypropylene. For storage of very high concentrations of corrosive materials, they also offer 100% polypropylene or 100% high density polyethylene cabinets. SciMatCo Polypropylene and HDPE Plast-a-Cabs® are also ideal for use in clean rooms, pharmaceutical environments, food service or marine applications.



Although the concept of wood construction is not commonly known for the storage of hazardous materials, it is certainly proven to be far safer and superior for both flammable and corrosive material storage. SciMatCo proudly manufactures and distributes wood and plastic cabinets for storage of these, and all other types of hazardous materials. For the safest chemical and hazmat storage, visit SciMatCo at www.SciMatCo.com or call 888-879-7620 today.

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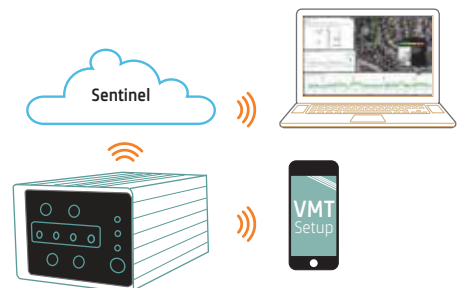
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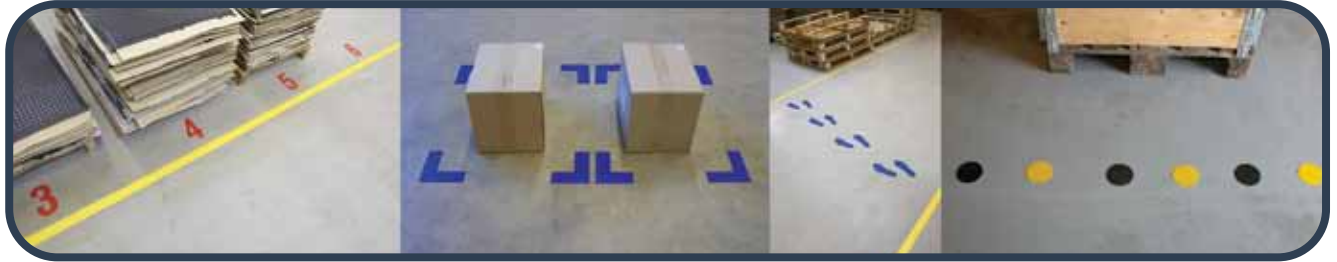
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