A Cold Splash of Reality - The Trichlor Shortage, and Why it’s an Opportunity for Pool Pros

IF YOU’VE BEEN FOLLOWING the trade news over the last few months, you’ve probably seen one topic in particular flooding every outlet’s feed: Trichlor. But you may not know a lot about the situation as a whole. So let’s discuss what it is, why it’s so hard to find, its common substitutes and (most importantly) what you can do to make sure that a Trichlor shortage doesn’t leave your business coming up short.

WHAT IS TRICHLOR? First things first: let’s make sure we’re on the same page about Trichlor and how chlorination actually works. Yes, by now you’re probably an expert on chlorine’s practical effects, but understanding the nuances of this shortage requires a certain amount of inorganic chemistry. Trichlor (or, more specifically, “Trichloro-s-triazinetrione”) is the disinfectant/bactericide most commonly found in circular 1-inch or 3-inch dissolvable tablets. The nickname “Trichlor” is derived from the three chlorine atoms in its chemical formula—the key distinguisher between Trichlor (C3Cl3N3O3) and its molecular cousin Dichlor (C3HCl2N3O3), which only has two. In either case, the water dissolved chlorine forms hypochlorous acid (HClO), which is when the real germ killing magic happens. When the acid comes into contact with microorganisms, it oxidizes them by breaking through their cellular walls and disrupting their internal structure. Imagine popping a water-submerged water balloon with dozens of tiny pin pricks. Eventually, the contents of the balloon will leech out into the surrounding water, and there will be nothing left of its original structure or contents.

WHY THE SHORTAGE? The current shortage is the result of a multi-system collapse that was caused by a perfect storm— an ongoing trade war, a global pandemic and, yes, an ACTUAL storm. Here’s a quick recap of a few major events for Trichlor over the last few years:

SEPTEMBER 2018 TARIFFS The U.S. Trade Representative announces an additional $200 billion in tariffs on Chinese goods. The list of affected products includes sodium hydroxide, a critical component for Trichlor production. American distributors and manufacturers race to stock up on supplies at pre-tariff prices before the new regulations take effect.

MARCH 2020 LOCKDOWN U.S. state governments announce the first mandatory stay-at-home orders, in hopes of slowing the spread of the COVID-19 pandemic. Searching for a new source of entertainment at home, many families look to building or renovating backyard pools. By the end of the pool season, national news sources will report record consumer demand. The already-depleted supply of Trichlor is stretched even further to accommodate the spike.

AUGUST 2020 HURRICANE Hurricane Laura, the strongest hurricane to hit Louisiana since 1856, makes landfall. The storm causes a fire to break out in the Westlake production facility of BioLab, the Trichlor manufacturer responsible for producing nearly 40 percent of the nation’s supply. The fire burns for three days and vaporizes an estimated 125 tons of chlorine pellets, forcing local residents within miles of the plant to stay indoors in order to avoid breathing the harmful fumes.

SEPTEMBER 2020 PANIC Fearing the worst, buyers scramble to find out every remaining Trichlor source they can find, and distributors begin rationing sales to prevent hoarding. Reports circulate of Trichlor prices skyrocketing, with some outlets finding that the unit price has nearly doubled within a week. Market analysts worry about prices for the coming pool season, with one expert predicting that “2021 will be long remembered as the year the Industry survived without dry chemicals.”

TRICHLOR ALTERNATIVES Luckily, you’ve got options. Here’s a quick rundown of the other options on the table to get you through the year’s expected barrage of demand spikes and price hikes. SALT Let’s start with the simplest option. In terms of pure science, chlorinators like Hayward’s AquaRite S3 Salt System rely on pretty basic chemistry principles to do their work. Combine table salt (NaCl) with pool water (H2O), add low voltage electrical current and voilà: you’ve got chlorinated water. That electrical process (electrolysis) is provided by the system as pool water passes through its salt conversion cell. When the current is introduced, that small amount of energy shuffles around the salt water’s molecular pairings to create hypochlorous acid (HClO, water dissolved chlorine) and sodium hydroxide (NaOH, a common ingredient in soap). When the chlorine oxidizes organisms in the water, the chloride ion (Cl-) in the hypochlorous acid gets recycled—allowing it to

Continued on page 2
be converted into chlorine gas all over again. Translation: salt systems are basically perpetual-sanitization machines. Maintaining a sanitized pool with a salt system is often as easy as adding a bag of salt to the pool now and then. The salt system takes care of the rest. You’ll still need to add salt to compensate for backwashes and natural salt loss over time, but that’s about it.

HYPOCHLORITES
Another common option for achieving the same type of pool chlorination as salt is to use sodium hypochlorite (NaClO, bleach). For those of you who have been pausing to read the chemical symbols (you stalwart chemistry champions, you!), you may have noticed how adding bleach to water puts all the same elements in play as saltwater does (Na, Cl, H, O). But rather than breaking those atoms apart with an electrical reaction, hypochlorites use a chemical reaction instead. Calcium hypochlorite (Ca(ClO), “Cal Hypo”) works similarly, substituting sodium for calcium—another element that naturally likes to bind with chlorine and oxygen molecules. Yes, there are other subtle differences (usage, price, odor, water softness, etc.), but the high-level view makes Cal Hypo and Sodium Hypo pretty tough to distinguish in any meaningful way. Are Hypos the right option for you? Depends on the amount of time and effort you’re willing to put into sanitization. While the idea of bypassing the cost of a salt chlorination system may seem initially appealing, hypochlorite sanitized pools need to be frequently monitored and
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adjusted (and occasionally stabilized with products like cyanuric acid). The answer for you will probably be the result of where the pool owner falls on the convenience-to-price continuum. Be warned, though: if Trichlor has taught us anything, it’s that making definitive price forecasts on chemicals too far into the future can be a fool’s gambit. UV, OZONE & AOP These three techniques could easily be covered individually, but the most advanced systems like Hayward’s leading HydraPure Sanitization System combine them to maximize their individual benefits, significantly reducing chlorine consumption in the process (note: HydraPure must be used in tandem with an existing chlorination system). Here’s a quick overview of each component:

- UV systems sanitize the water using shortwave light to neutralize organic contaminants like bacteria, viruses and other nasty germs.
- Ozone systems use trioxide (O3) to destroy chlorine resistant microorganisms, along with chemicals like chloramines and nitrogen compounds.
- Advanced Oxidation Process (AOP) systems combine UV and ozone to produce hydroxyl radicals (•OH) that sanitize faster than ozone and quickly evaporate without lingering smells or harmful residuals.

You may have noticed that the only elements listed above were hydrogen (H) and some form of oxygen (O). That’s what makes 3-in-1 sanitizers so powerful. Not only do they use complimentary systems to maximize the sanitation potential—they do it all without even needing to bring chlorine or metals (like calcium and sodium) into the equation. Rather than creating an alphabet soup of chemical elements in the pool, 3-in-1 sanitizers keep H2O full of only more Hs and Os. Impressive, right?

FINAL THOUGHTS The Trichlor situation is very, very messy. It’s the result of multiple interlocking things all going wrong at the same time, so it’s impossible to say what the future holds. Maybe current trade restrictions will change. Maybe U.S. manufacturers can pick up the slack before pool season. Maybe this shortage only lasts for a few months. Maybe it doesn’t. At some point, the market will return to relative normal. It’s a matter of when, not if. The real question is whether or not you want to risk riding out the uncertainty in the meantime, and whether you want to open yourself up to the potential that it happens again in the future. The last year has handed us a whole lot of new challenges, whether we’ve liked them or not. And through it all, the people and businesses who have fared the best are the ones who have rolled with the punches, turned challenge into opportunity and found a new way forward. That’s as true for business as it is for sanitization. There’s never been a more unpredictable time for our industry than right now. But that also means that there’s never been a more perfect time to make a change for the better.

Article provided by Hayward Industries, Inc.
CHAPTER MEMBER MEETINGS

AUSTIN MEMBER MEETING
Cherry Creek Catfish Company
5712 Manchaca Rd.
Austin, TX 78745
1st Tuesday of the month 6:00pm
Mark Mastropietro President 512-550-1100
Jehery Graves Vice President 512-385-2378
Justin Stuard Secretary 512-971-3599
Will Pietri Treasurer 512-351-0323

AUSTIN NORTH MEMBER MEETING
NorthAustinIPSSA@gmail.com
Casa Chapala Mexican Cuisine/Tequila Bar
9041 Research Blvd #100
Austin, TX 78758
2nd Wednesday of the month 6:00pm
Thomas Long President 512-293-7831
Scott Pemberton Vice President 512-257-7665
Justin Pinson Secretary 512-705-5400
Josh McDermott Treasurer 512-629-2955

CORPUS CHRISTI MEMBER MEETING
SCP
4630 Corona Dr
Corpus Christi TX 78411-4311
1st Thursday of the month 6:30pm
Michelle Wilkinson President 209-604-6460
David Galloway Vice President 361-855-5557
Adam Wilkinson Secretary 209-604-7159
Mike Baker Treasurer 361-563-7665

DALLAS MEMBER MEETING
Rockfish Seafood Grill
7639 Campbell Rd Suite 800
Dallas TX 75248
4th Tuesday of the month 5:30pm
Travis Coleman President 214-799-7739
Brian Ivy Vice President 972-415-9578
Matt Hopperstad Secretary 214-802-3451
Bob Anderson Treasurer 469-288-9264

FORT WORTH MEMBER MEETING
La Playa Maya Restaurant
1540 N. Main Street
Fort Worth, TX 76106
3rd Tuesday of the month 6:30pm
Paul Nelson President 254-592-0323
Jason Sanchez Vice President 817-901-8363
Robert Noves Secretary 714-423-1602
Greg Clark Treasurer 817-453-1302

HILL COUNTRY MEMBER MEETING
T J’s Burgers
259 TX-337 Loop
New Braunfels, TX 78130
3rd Tuesday of the month 6:30pm
Jascha Wood President 512-216-7663
Randy Davis Vice President 512-847-1800
Trey Oakes Secretary 512-618-2443
Darren Bartleson Treasurer 512-557-3874

HOUSTON MEMBER MEETING
Senate Avenue Brewery
16000 Dillard Dr., Suite F
Jersey Village, TX 77040
2nd Tuesday of the month 7:00pm
David Queen President 281-807-5442
Brian Caudle Vice President 281-345-9656
Doug Dinkins Treasurer 281-794-6644

HOUSTON CLEAR LAKE MEETING
Rudy’s BBQ
21361 Gulf Freeway
Webster, TX 77598
4th Tuesday of the month 7:00pm
David Potts President 832-840-0887
Matthew Hunter Vice President 281-624-6191
Kristen Clancy Secretary 281-617-9563
Stephanie Laws Treasurer 832-250-6858

HOUSTON NORTH MEETING
La Cocina de Roberto
3126 Sawdust Road
The Woodlands, TX 77380
We also meet at Manufacturer locations if training is available, so please contact us prior to our meeting if you are not sure
3rd Tuesday of the month 7pm
Stephen Titone President 281-773-8643
John Prosser Vice President 281-251-6484
David Harling Secretary 281-924-6450
Andrew Hillmeyer Treasurer 832-585-4424

HOUSTON WEST MEETING
Spring Creek Barbeque
21000 Katy Freeway
Katy, Texas 77494
1st Tuesday of the month 7pm
Bill Williams President 832-593-6299
David Howard Vice President 832-689-5636
Christian Alvim Treasurer 832-483-5356
Diane Williams Secretary

MID CITIES MEMBER MEETING
SCP Carrollton
2107 Hutton Drive
Carrollton, TX 75006
1st Monday of the month 7:00pm
Stephanie Gardner President 469-835-5674
Doug Holcombe Vice President 817-201-7012
Robert Pierce Secretary 469-586-6233
Doug Taylor Treasurer 214-866-9462

SAN ANTONIO MEETING
Longhorn Cafe
17625 Blanco Road
San Antonio, TX 78232
1st Monday of the month 6:30pm
Officers Meeting 6:00pm
Jorge Martinez President 210-549-7665
Patrice Meacham Vice President 210-290-6693
Travis Schultz Secretary 210-288-0710
Brian Tully Treasurer 210-843-0582

TARRANT COUNTY MEMBER MEETING
El Chico
7621 Baker Blvd
Richland Hills, TX 76118
1st Tuesday of the month 7:00pm
Jason Wilson President 817-366-1200
Lance Jones Vice President 817-860-7500
Ruben Rodriguez Secretary 817-663-3946
Dustin Gardner Treasurer 817-366-8927

WAXAHACHIE MEMBER MEETING
Denny’s
408 Westchase Drive
Grand Prairie, TX 75052
2nd Wednesday of the month 7:00am
Bryan Courville President 817-309-9874
Chris Holt Vice President 817-673-8508
Brent Large Secretary 817-298-4482
Bob Bauer Treasurer 972-345-3835

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IPSSA Texas News prints ALL of Texas chapter events that it receives. Help your chapter grow, SEND US YOUR INFO!
**April 2021**

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*Please contact your chapter to verify meeting info. Most Chapters are having ZOOM meetings. See chapter contact information on page 4.*

**2020 TERRY COWLES MEMORIAL AWARD WINNER**

James Romanowski joined IPSSA in 1988 (the year it was formed, before that he was a member of IPSA), he is a member in Region 5 – Orange County Pool Professionals. When Jim took over as President of the Orange Coast Chapter membership count was around 20. Jim grew the membership in that chapter to over 100. Because the chapter was so large it split into two of the largest chapters in the region. Jim has served as a chapter officer throughout his tenure in his region. The only time he wasn’t a chapter officer was during his two terms as Director of Region 5 and he served as President of IPSSA National. Other examples of Jim’s contributions to IPSSA include his four years as chair of the Expansion Committee. Jim facilitated efforts crucial to the inception of Region 11 and its seven chapters. The expansion in Florida included, several hours cold calling business owners and pool stores all over Florida to gauge feasibility, multiple cross-country trips and weeks away from his own business. Jim become the face of IPSSA in Florida and immediately started forming and holding the first chapter meetings across Florida, which he later earned the nickname “Mr. Florida.” The first chapter meetings Gold Coast, the Osceola and the Manasota Chapters. Jim is an avid believer in paying it forward. He has also helped mentor various BORD directors, incoming regional directors and several young chapter members. Jim helped them navigate various aspects of leadership as an officer of IPSSA organization. He has also helped several of his former employees develop successful businesses of their own. On a community level outside of IPSSA and the pool industry, Jim has also made significant contributions as a former Tennis Coordinator for the City of Huntington Beach. Jim set up several amateur tennis tournaments for the city. The effort included 15 years of the Huntington Beach Wheelchair Tennis Classic, which at the time was the longest running tournament of its kind in the history of the country. He was honored for the achievement by The National Wheelchair Tennis Foundation and the Community Services Commission for the City of Huntington Beach in the 1990’s.
Region Meetings

Region 9 Board Meeting April 17, 2021
Region 12 Board Meeting TBD

Region 9 Executive Board
Director - Becky Clayson 210-240-3121
Houston Clear Lake - Region Secretary - David Potts 832-840-0887
Austin - Region Treasurer - Will Pietri  512-351-0323

Austin - Mark Mastropietro
512-550-1100
Austin North - Thomas Long  5 12-975-1801
Corpus Christi - Michelle Wilkinson 209-604-6460
Hill Country - Jascha Wood 512-216-7663
Houston - David Queen 281-807-5442
Houston North - Stephen Titone 281-773-8643
Houston West - Bill Williams
832-593-6299
San Antonio - Jorge Martinez 210-274-2465

Region 12 Executive Board
Director - Casey Gardner 469-835-5674
Tarrant County - Region Secretary - Jason Wilson 817-366-1200
Dallas - Region Treasurer - Travis Coleman 214-799-7739

Fort Worth - Paul Nelson 254-592-0323
Mid Cities - Stephanie Gardner 469-835-5674
Waxahachie - Bryan Courville 817-308-9874

IPSSA CONTACT INFORMATION

IPSSA Texas News Ingrid Slagle 817-304-7244 info@ipssatexas.com

Associate Management Team:
Rose Smoot IOM, CAE - Executive Director
888-360-9505
Email: rose@ipssa.com

Duties: Requests to and from BORD, associate member relations, governance information and requests for documents, IPSSA sick route oversight, Education Fund guidelines, grievance information, chapter governance tools, IPSSA.com website updates.

Project Resource Specialist:
Penny Gaumond
Phone: 888-360-9505, Ext. 2
Email: info@ipssa.com

Duties: Trade show materials requests, tabletop material requests, codes for water chemistry test, process orders from chapters for sick route coverage cards, IPSSA merchandise & book order fulfillment, social media posts

Financial Office
Frank McDonald
Phone: 888-360-9505 x1
Email: frank@ipssa.com

Duties: Oversees day-to-day membership transactions and accounting, prepares IPSSA financial reports, chapter shares and census report

Accounting
888-360-9505 x1
accounting@ipssa.com

Duties: Invoicing members, process payments, processes (financial) tax data, Swim Fund, track members that are water chemistry certified

Member Services:
Alison Thompson
Phone: 888-360-9505 x1
Email: memberservices@ipssa.com

Duties: Membership applications, transfers, cancellations, change of address or contact information, auto-pay sign up or one-time payments, chapter rosters and chapter officer updates

Arrow/HUB Insurance
Diane Howard - Insurance Bookkeeper
Email: diane.howard@hubinternational.com
800-833-3433
Duties: proof of insurance requests

Insurance Billing
insurance@crampercpa.com
PO Box 2934, Rocklin CA 95677
844-574-1134 • Fax # 888-811-4502
"WHAT WERE THEY THINKING"?

“What were they Thinking?” We have all run into those situations that are just so outrageous, funny or just plain unprofessional that they warrant a photo - it doesn’t just have to do with all the “creative” plumbing or equipment layouts we have seen. If you have a contribution of interest just let me know - Ingrid  info@ipssatexas.com

Submitted by Ingrid Slagle: the pump room from hell, as you can see one sand filter was stacked on top of the other. Sand change will be interesting…. This was installed in one of the fancy apartment in down town Fort Worth. The top filter has a leak, maintenance is directing the drip with a pvc pipe. There are 4 Pentair IntelliFlo pumps tucked into the corner and again stacked. Apartments run these 24/7, I would say this whole set up is maintenance “unfriendly”. Unfortunately this is not uncommon for the apartment industry.

Jobs were not performed by IPSSA members!

This “repair” job is still leaking adding more and more glue will not fix this. Do it right the first time. And take some pride in your work people.

1. A pH of 5.0 is 100 times more acidic than a pH of 7.0
   A. True
   B. False

2. Normally, pools should be partially drained when the hardness reaches this level....
   A. 1000 ppm
   B. 500 ppm
   C. 400 ppm
   D. 800 ppm

3. The pH of the water does not affect chlorine effectiveness.
   A. True
   B. False

4. At a pH of 7.5 and a temperature of 68° F, you have this much chlorine in the killing form (HOCl)
   A. 55%
   B. 60%
   C. 49%
   D. 38%

Answers provided in this edition, page 15
The IPSSA Waxahachie Chapter held its February meeting via Zoom. We had guest speaker Kevin Tucker with Educational Leverage leading us in a mini seminar about electrical codes and an overview of electrical issues.

If you would like to get involved with the Waxahachie Chapter, serving the Grand Prairie, Mansfield, Red Oak, Midlothian, and Arlington areas, please contact Chapter Secretary, Brent Large at livinlargepools@gmail.com.

ONLINE CLASSES

https://www.premier-education.net/
Sam Thompson
https://www.educational-leverage.com/
Kevin Tucker
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Downsides of Trichlor Tablets
- Increased CYA leads to reduced chlorine effectiveness
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- Higher cost per use
- Increased chemical byproducts & fillers
- Lower pH and total alkalinity may lead to increased use of soda ash and sodium bicarbonate
- Contributes to more frequent pool draining (and costly refills) to lower high CYA

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(210) 215-1940
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<td>2301 E. Saint Elmo Rd Bld. 2, Ste.#200 Austin, Texas 78744</td>
<td>(512)326-8478</td>
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<tr>
<td>9230 Neils Thompson Dr. Ste.#108 Austin, Texas 78758</td>
<td>(512)335-4200</td>
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<tr>
<td>Superior Pool Products</td>
<td>200 Parker Dr. Bld. B, Ste.560 Austin, Texas 78728</td>
<td>(512)218-1190</td>
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<tr>
<td>Superior Pool Products</td>
<td>2107 Hutton Drive Carrollton, Texas 75006</td>
<td>(972)241-6626</td>
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<tr>
<td>Superior Pool Products</td>
<td>17001 Donwick Drive Conroe, Texas 77385</td>
<td>(936)321-7145</td>
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<tr>
<td>Superior Pool Products</td>
<td>4630 Corona Drive Ste.B Corpus Christi, , Texas 78411</td>
<td>(361)730-1988</td>
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<tr>
<td>Superior Pool Products</td>
<td>11281 Indian Trail Dallas, Texas 75229</td>
<td>(214)366-4009</td>
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<tr>
<td>SCP</td>
<td>10468 Brockwood Rd. Northgate II, Bldg.14 Dallas, Texas 75238</td>
<td>(214)503-6291</td>
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<td>NPT Houston</td>
<td>11281 Indian Trail Dallas, Texas 75229</td>
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<td>2002 Synergy Blvd. Ste. 400 Kigore, Texas 75662</td>
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<td>4256 Royal Ave. Oklahoma City, OK 73108</td>
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IPSSA’s Basic Training Manual - Part 1 focuses on water chemistry and covers: properties of water; pool types; volume calculations, standards and measurements; water chemistry and balance; chemistry of chlorination; types of chlorine; protecting chlorine; chlorine generators, bromine and ozone; water testing; and chemical adjustments. It also includes an extensive glossary and practice test questions, easy-to-use chapter tabs, many graphics, charts and tables.

IPSSA’s Basic Training Manual - Part 2 focuses on equipment and covers: hydraulics, pumps and motors, filters, skimmers, fittings and valves, heaters, heat pumps and solar, plus automatic pool cleaners. It also includes an extensive glossary and practice test questions, easy-to-use chapter tabs, many graphics, charts and tables.

IPSSA’s Intermediate Training Manual - Part 1 focuses on water chemistry and covers: algae; more sanitizers (biguanides, UV, chlorine generators and mineral technology); ammonia, chloramines, combined chlorine, nitrates, nitrogen-containing compounds and organic contaminants; cloudy water and clarifiers; pool start-ups; your questions and FAQs; miscellaneous tips, tricks, short cuts, quick facts and conversions. It also includes an extensive glossary and practice test questions, easy-to-use chapter tabs, many graphics, charts and tables.

Pool Chlorination Facts - this book contains 30 years worth of gathered information, tips, tricks, techniques and myths - all the things you ever wanted to know about using chlorine in a pool are here.

IPSSA’s Intermediate Training Manual - Part 2 focuses on equipment and covers: hydraulics, pumps and motors, filters, skimmers, fittings and valves, heaters, heat pumps and solar, plus automatic pool cleaners. It also includes an extensive glossary and practice test questions, easy-to-use chapter tabs, many graphics, charts and tables.
FREE LIFE SAVING MESSAGE DOORHANGER

IPSSA Region 12 has partnered with Cook Children's Hospital to help raise awareness about water safety by creating and providing FREE door hangers with safety tips and facts on drowning prevention. These are intended to be shared with all your customers to spread water safety awareness. Each door hanger’s message is written in English and Spanish.

You can acquire your FREE door-hangers at the following SCP locations: Carrollton, Dallas, Frisco, Plano, Grand Prairie and Fort Worth, as well as Jetline Products in Coppell and FWP in Plano.

Please join us in sharing this life saving message.

POOL QUIZ ANSWERS

1. A  
2. B  
3. B  
4. A

IPSSA INC. HAS A MATCHING GRANT FUND

Matching grant fund of $12,000 to assist individual regions and chapters for community involvement, safety programs, and promoting IPSSA to the public. The spirit of the matching grant is to foster IPSSA promotions by facilitating new ideas from individual members, chapters and regions.

The matching grant funds shall be allocated evenly by region in each given year. In the event that a region does not request funds in a given year, the region’s representative may elect to reallocate their portion to the matching grant fund for redistribution. Any redistribution of funds must be approved by the BORD.

The BORD will match, dollar for dollar, up to the budget amount once a matching grant is approved by the regional Board. Each region shall determine how to use its allotment of funds without BORD approval once it has been approved by the regional Board.

Individual members, chapters and regions of IPSSA in good standing qualify for matching grants.

• Matching grant requests must be submitted in writing to the regional director.
• The regional director shall qualify the request to meet the spirit of the matching grant program.
• The region must approve the grant by either a regional Board meeting, regional Board teleconference, or e-mail ballot, and the results will be posted in the regional minutes.
• The regional director shall then request the funds from the IPSSA BORD president or chief financial officer without BORD approval, as long as the requested amount does not exceed the region’s budgeted amount.
IPSSA Texas News
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Richland Hills, TX 76118

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ACROSS

2. Cloudy condition of the water due to the presence of extremely fine particles in suspension that can not be trapped by the filter because they are too small.
4. A unit of measurement of energy equal to 100,000 BTU
5. The period of time (usually in hours) required to circulate a volume of water equal to the volume of water contained in the pool/spa.
6. An insulated conductor at which point an electrical component may be connected to another electrical component.
7. The property of an electric circuit which determines to a given current the rate at which electric energy is converted into heat or radiant energy, and which has a value such that the product of the resistance and the square of the current gives the rate of conversion of energy.

DOWN

1. That portion of an electrical motor which contains the stationary parts of the magnetic circuit with their associated windings.
2. A temperature control device
3. A tank or pit that receives drainage and stores it temporarily and from which the discharge is pumped or ejected.

APRIL PUZZLE