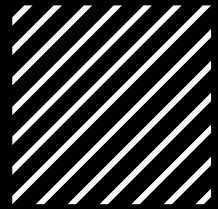


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L I M I T E D

CORPORATE COMPANY PROFILE



MANUFACTURERS / GENERAL
MERCHANDISE DEALERS

FOR BETTER RESULTS
EVERYTIME

CONTACT US :

Phone : (868)-235-5312
(868)-646-7841

Fax : 646-7641

Email : office@christleltd.com

Web : www.christleltd.com

Address :

Christle Limited

#18 E & F O'Meara Industrial Estate, Arima, Trinidad, W.I.

christle LIMITED

Rubbing Alcohol 70%

Sizes available:

Rubbing Alcohol - 250ml
Rubbing Alcohol - 500ml
Rubbing Alcohol with sprayer - 1000ml
Rubbing Alcohol without sprayer - 1000ml
Rubbing Alcohol - 4lt
Rubbing Alcohol - 5gal

Methylated Spirit 86%

Sizes available:

Methylated Spirit - 250ml
Methylated Spirit - 500ml
Methylated Spirit - 4lt

Isopropyl Alcohol 99%

Sizes available:

Isopropyl Alcohol with sprayer - 1000ml
Isopropyl Alcohol without sprayer - 1000ml
Isopropyl Alcohol - 4lt
Isopropyl Alcohol - 5gal

Liquid Hand Sanitizer

Sizes available:

Hand Sanitizer with sprayer - 250ml
Hand Sanitizer with sprayer - 500ml
Hand Sanitizer with sprayer - 1000ml
Hand Sanitizer - 4lt

**AVAILABLE
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**TESTED
and
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L I M I T E D



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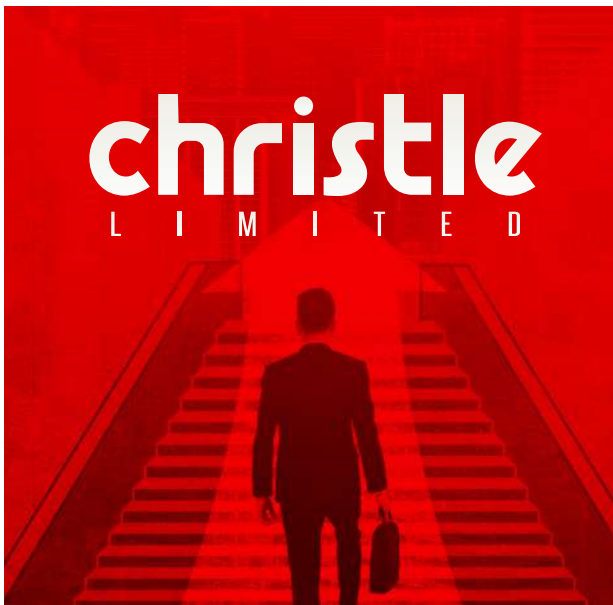
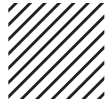


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L I M I T E D

WELCOME TO OUR COMPANY PROFILE

CHRISTLE products have become a familiar sight on the shelves of popular groceries, leading hardware, and Auto Shops nationwide - a testimony to a well-deserved, positive product and service reputation. Growing export sales to the Caribbean Region are indicative of a strong future and growth trend for CHRISTLE LTD, and its high quality, well-structured, and competitively priced products.

OUR GOALS



CONTACT US :

Phone : (868)-235-5312
(868)-646-7841

Fax : 646-7641

Email : office@christleltd.com

Web : www.christleltd.com

Address :

Christle Limited
#18 E & F O'Meara Industrial Estate,
Arima, Trinidad, W.I.

COMPANY PHILOSOPHY -
The highest principles and ethical practices in dealing with all parties. Quick responses to decision making process.

VISION STATEMENT

Christle Ltd will be a major player in the production and distribution of chemical products, committed to the manufacture, sale and delivery of the highest quality products in Trinidad & Tobago as well as the Caribbean region.

MISSION STATEMENT

To produce the highest quality innovative products for residential and commercial applications. To provide professional quality service to consistently meet customer and consumer requirements. To provide safe and comfortable operational and environmental facilities for staff in keeping with the best OSHA practices.

ABOUT THE COMPANY

FROM A TINY SEED A GIANT TREE



Spurred by the burning desire to manufacture quality products at competitive prices and to take control of his destiny, Christopher Garcia founded Christle Ltd. Despite the turbulent social climate and challenging economic conditions prevailing at that time, the company was incorporated on January 11th, 1989 as a limited company. Manufacturing immediately commenced at # 2 Gypsum Drive, Champs Fleurs, and was then relocated to #18E O'Meara Industrial Estate, Arima for expansion of the plant. Today this stable, familiar location continues proudly, to house office, warehouse, and manufacturing operations as well as laboratory testing and research facilities. The highest standards of safety and security are maintained to ensure a quality environment. Initially, manufacturing was limited to just three

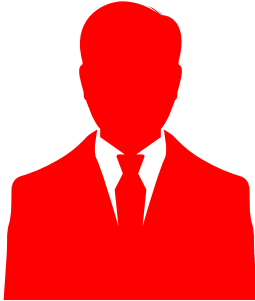
products, Battery Water, Pine Disinfectant, and Dishwashing Liquid but consumer acceptance of the CHRISTLE BRAND and rapidly increasing demand, coupled with the need to effect greater distribution economies, encouraged a fast expansion of the product portfolio. This now embraces more than thirty different items for household and industrial applications, all of which undergo stringent quality control testing, before being labeled with the CHRISTLE BRAND- the name which implies USER GUARANTEE of the delivery of expected and continuously satisfactory results. Utilizing

effective distribution channels and a professionally trained, committed sales team, the company has achieved an enviable nationwide distribution servicing over 1,000 outlets. CHRISTLE products have become a familiar sight on the shelves of popular groceries, leading hard-wares, and Auto Shops nationwide - a testimony to a well-deserved, positive product and service reputation. Growing export sales to the Caribbean Region are indicative of a strong future and growth trend for CHRISTLE LTD and its high quality, well-structured, and competitively priced products.

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BOARD MEMBERS

The Board of Directors consists of three (3) Members:



**CHRISTOPHER
GEORGE GARCIA**

MANAGING DIRECTOR



**JONATHAN
GARCIA**

DEPUTY MANAGING
DIRECTOR



**GODFREY
GARCIA**

DIRECTOR

The Board of Directors consists of Christopher Garcia (Managing director and major shareholder), and his two sons Jonathan Garcia and Godfrey Garcia. Both are directors in the company. Christopher Garcia, spurred by the desire to take control of his own destiny and to manufacture quality products at competitive prices, founded Christle Ltd in 1989.

Mr. Garcia maintains the high responsibility of being the main decision-maker; however, everyone knows him to be quite democratic since he usually acts based on the collection of opinions and ideas of the other board members, his employees, and his intellect.

His responsibilities also include:

- Development and executing the company's business strategies in order to obtain goals.
- Preparation and implementation of comprehensive business plans.
- Planning cost-effective operations and market development activities.

- Establishing company policies and legal guidelines.
- Building long-term trusting relationships with business partners and authorities.
- Overseeing the company's financial performance, investments and other business ventures.
- Supervising the work of executives, providing guidance and motivation to drive maximum performance.
- Ensuring a positive work environment.
- Ensuring performance appraisal, training and professional development activities.
- Rewarding performance, prevent issues and resolve problems.
- Analysing problematic situations and occurrences and provide solutions to ensure company survival and growth.

BOARD MEMBERS

Both directors are thoroughly versed in the purchasing and manufacturing of products and guiding the sales team to properly service a wide distribution of over 1000 outlets nationwide. Customers are satisfied with the results of Christle products' performance in applications for PVC/CPVC solvents, cleaning agents and chemical products.

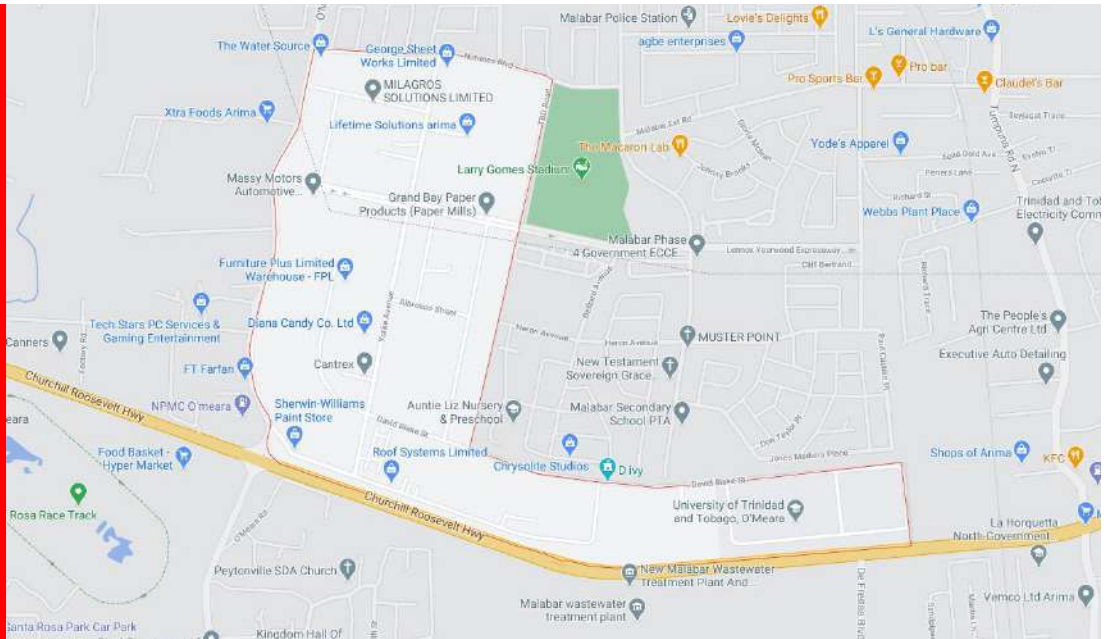
Mr. Jonathan Garcia has roles that directly affect the flow of production and structure within the company. He is titled as the Deputy Managing Director and is responsible for the complete oversight of logistics within the company. Alongside this, he is also in charge of the production of all chemical products manufactured by the company as well as the prestigious quality control that the company guarantees. Mr. Jonathan Garcia has been in this position for the past 15 years.

The final member of the board is Mr. Godfrey Garcia, who is titled as a Director.

Departments within the company's general infrastructure include Operations, Marketing, Sales, Office, Warehousing, Manufacturing, Laboratory Testing, Research, and Sales. Currently, the company has 25 employees, with each one having crucial roles within each of these departments.



BUSINESS LOCATION



The company, located at #18 E&F O'Meara Industrial Estate, houses office, warehouse and manufacturing operations as well as laboratory testing and research facilities.

CORPORATE COMPANY PROFILE



ONLINE PRESENCE

Christle Limited currently maintains and runs its active Facebook page. Through this medium, they interact with their large audience of over 4000 social media users. The company applies advanced marketing strategies to entice users of this platform; thus, encouraging them to view and purchase any of the products available with ease. Customer satisfaction is visible with the numerous amount of positive product reviews on the page. Advertising and social media are the main channels used for marketing to the public. Christle Limited maintains a frequently updated website and an interactive Facebook page. Positive customer testimonials are available through the company's social media page. These compelling quotes from current customers make the products and services seem more attractive to new potential buyers.

ADVANCED BUSINESS DETAILS

DISTRIBUTION

Christle Limited distributes its products to the public by selling wholesale to a variety of Hardware, Groceries, Plumbing shops, and Electrical stores all over Trinidad and Tobago. However, customers will be facilitated if they visit the Arima Industrial Estate branch.

MAIN MARKETING CHANNELS

The main marketing channel used by Christle Limited is advertising via social media. These are accompanied by promotions from their distributors. (Hardwares, Groceries, Plumbing shops and Electrical stores). With the use of social media the company can have a better reach to their client base and help them be aware of current promotions and sales.

ACCESSING NEW MARKETS

Christle Ltd markets to over 1,000 customers nationwide and has achieved growing export sales to the Caribbean indicative of a strong future and growth trend as it offers its services and products to both consumers and businesses alike.. However the company does not conduct business online ,therefore, the possibility of online business is currently being explored due to its benefits

The benefits of online options are plentiful as it allows global access 24 hours a day / 7 days a week; it improves client service through greater flexibility. It is cost-efficient, allows faster delivery of products, increases professionalism, deters from paper wastage, and allows opportunities to manage your business from anywhere in the world.

ADAPTING TO THE CHANGING WORLD.



Christle Limited introduced its latest line of products in 2020 at the beginning of the Covid-19 pandemic. They adapted to serve the need of the public by manufacturing rubbing alcohol, methylated spirits, and hand sanitizers which were in high demand. Upon analysis, this initiative showed to be a massive success for the company and assist in an increase in sales. Aside from the sanitization products, Christle Limited also manufactures numerous amount of cleaning products that are also in high demand.



SHORT TERM PROJECTIONS

The company forecasts a stable and ever-expanding increase for demand in their industry within the next 5 years. In 3-5 years, we anticipate constant growth and with the expansion of the Caribbean market, and the introduction of a wider range of auto products and the development of online sales a doubling of current sales volumes. The company aims for advanced development of online sales, added auto products, bigger investment in the Caribbean market, and developing skills for handling government tenders.

Changes required to satisfy this projected vision of the business includes:

- The introduction of online purchasing.
- The hiring of an experienced professional for export sales and marketing.
- The appointing of Caribbean distributors in each territory.
- Expanding the range of products for Auto shops.
- Adding new products to the 3 categories manufactured.
- More aggressive in store marketing with periodic specials, and on-shelf promotional material.
- The introduction of NLCB approved contests with prizes to encourage product trials.
- The distribution of samples.
- Increasing consumer awareness by promoting new products and consumer trial.
- The distribution of coupons.

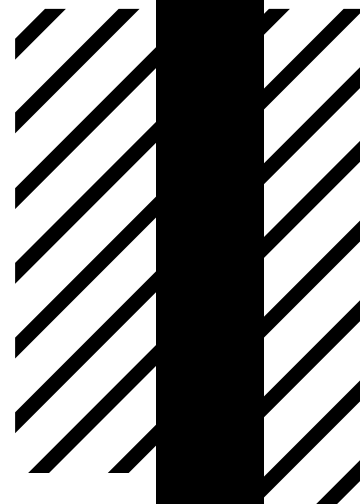
Increased sales of existing products can be generated locally by streamlining production and utilizing spare production capacity. New products for the auto market would likely require additional staff and research expenditure while Caribbean marketing would incur travel costs and suitable staff.

OVERHEAD FACTORS OF PRODUCTION

- Rent of the production building.
- Utilities for factory.
- Communication systems and computers for the manufacturing facility.
- Property taxes and insurance on manufacturing facilities and equipment.
- Salaries of maintenance personnel.
- Salaries of factory management team.
- Salaries of material handlers.
- Salaries of quality control staff.
- Factory supplies not directly associated with products.
- Depreciation on manufacturing equipment.
- Janitorial staff wages.

POLITICAL CLIMATE

The twin isle Republic of Trinidad and Tobago operated with a stable Westminster style government. The multi-racial, multi-ethnic, multi-religious population enjoys the freedom of speech and religion and a free press. Despite turbulent economic conditions and dealing with the pandemic, T&T remains a major Caribbean economic power based on its oil and gas and growing manufacturing sector, the latter aided by a careful distribution of limited foreign exchange.





MAJOR COMPETITION

We continue to supply high-quality products and services, develop major customers and introduce products that the market will accept. Losing business to a competitor in the short term is not a major concern as the customer base continues to grow. However, in the long term, the customer always tends to return to the Christle brand and continues to buy on a regular and consistent basis due to the confidence in our products, the excellent service provided, and speedy response time.



CONSUMER BUYING BEHAVIOUR AND RESEARCH

With over 1,000 current customers, most new customers are acquired through our sales force, visits, and some via Facebook or website. Therefore, the costs are minimal when bringing new customers on board.

Within our research and targeting process, no specific geographical area is the focal point of the company since business is distributed over the entire country, but our main target market is comprised of groceries and supermarkets, hardware stores, and auto shops.

Products have been designed to have a consistent demand throughout the year; therefore, seasonal buying does not tend to be a problem. However, there may be small increases in sales around holiday times, for instance, Christmas, Eid-ul-Fitr, and Divali.

We have also discovered that buyer's remorse is not a current problem due to a well-deserved positive product and service reputation. Products undergo strict quality control testing before being labelled and are high quality, well-structured, and competitively priced.

As a company, we are most proud of being a family business that has grown "from a tiny seed to a giant tree." Due to this, suppliers, customers, banks, and everyone in-between have confidence and trust in our business. Our single most competitive advantage is that we are fully committed to providing high-quality products at competitive prices. With strategic alliances such as good banking relationships and a positive reputation with raw materials suppliers, we continue to grow and propel our business further.

MARKET POTENTIAL

The current range of products anticipates a steady growth over the next 5 years; however, with the extension of the auto products line, the introduction of online marketing, and a more aggressive approach to the export market sales, it could double within the upcoming ten years. Establishing market share is difficult as information is not readily available. Still, three categories of products are being manufactured and distributed.

CUSTOMER LOYALTY

Our Customers are very loyal and growing in number due to the positive reputation of products and service. Being a family-run business, decision-making is quick, and service is very personalized.

PVC / CPVC SOLVENTS



SOLVENT CEMENT

Packaging:
1000 mL - 12 per case
500 mL - 24 per case
250 mL - 48 per case
125 mL - 48 per case
65 mL
30 mL

**Specially Formulated for
High Pressure & High Temperature
P.V.C. / C.P.V.C.**



CLEANER & PREPARATION FLUID

Packaging:
1000 mL - 12 per case
500 mL - 24 per case
250 mL - 48 per case
125 mL - 48 per case

Comes in coloured & clear



SWIMMING POOL SOLVENT CEMENT

Packaging:
500 mL - 24 per case
250 mL - 48 per case
125 mL - 48 per case

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L I M I T E D

CLEANING AGENTS

LIQUID FLOOR STRIPPER

Packaging:
1000 mL - 12 per case
4 Litres - 4 per case



LIQUID HAND SOAP

Cherry, Lavender and Apple

Packaging:
4 Litres - 4 per case



DEGREASER

Packaging:
1000 mL - 12 per case
4 Litres - 4 per case



CLEANING AGENTS



BLACK DISINFECTANT

Packaging:
800 mL - 12 per case
300 mL - 24 per case
4 Litres - 4 per case



LIQUID TOILET BOWL CLEANER

Packaging:
1000 mL - 12 per case
4 Litres - 4 per case



Liquid Declogger

Packaging:
1000 mL - 12 per case
4 Litres - 4 per case

CLEANING AGENTS

ULTIMATE RUST REMOVER

Packaging:
1000 mL - 12 per case
500 mL - 24 per case
4 Litres - 4 per case



DISINFECTANTS

Cherry, Lavender, Pine and Apple

Packaging:
900 mL - 12 per case
4 Litres - 4 per case

Also available in
55 gallon drums and 5 gallon kegs



SUPERB TILE & GROUT CLEANER

Packaging:
1000 mL - 12 per case
4 Litres - 4 per case



CLEANING AGENTS



BLEACH

Packaging:
1000 mL - 12 per case
4 Litres - 4 per case



DISHWASHING LIQUID Lemon and Apple

Packaging:
800 mL - 12 per case
4 Litres - 4 per case



GLASS & CHROME CLEANER

Packaging:
1000 mL - 12 per case
4 Litres - 4 per case

CHEMICAL PRODUCTS

HAND SANITIZER

Hand Sanitizers are Liquid 70 percent isopropyl alcohol based.

Packaging:

- 250 ml - 48 bottles per case
- 500 ml - 24 bottles per case
- 1000 ml - 12 bottles per case
- 4 L - 4 bottles per case



ISOPROPYL ALCOHOL 99%

Packaging:

- 250 ml - 48 bottles per case
- 500 ml - 24 bottles per case
- 1000 ml - 12 bottles per case
- 4 L - 4 bottles per case



RUBBING ALCOHOL 70%

Packaging:

- 250 ml - 48 bottles per case
- 500 ml - 24 bottles per case
- 1000 ml - 12 bottles per case
- 4 L - 4 bottles per case



CHEMICAL PRODUCTS



ACETONE LIQUID 100%

Packaging:

500 mL - 24 per case
250 mL - 48 per case



BATTERY WATER

Packaging:

1000 mL - 12 per case
500 mL - 24 per case
4 Litres - 4 per case



TYRE SHINE

Packaging:

250 mL - 24 per case

CHEMICAL PRODUCTS

ISOPROPYL ALCOHOL

Packaging:
4 Litres - 4 per case



PURE LYE LIQUID

Packaging:
1000 mL - 12 per case
500 mL - 24 per case
4 Litres - 4 per case



METHYLATED SPIRIT

Packaging:
250 mL - 48 per case
500 mL - 24 per case
4 Litres - 4 per case



CHEMICAL PRODUCTS



Liquid Muriatic Acid

Packaging:
1000 mL - 12 per case
500 mL - 24 per case
4 Litres - 4 per case



Oil Paint Thinners

Packaging:
900 mL - 12 per case
4 Litres - 4 per case



Pure Lye Liquid

Packaging:
1000 mL - 12 per case
500 mL - 24 per case
4 Litres - 4 per case

CHEMICAL PRODUCTS

Liquid Termite Treatment

Packaging:
1000 mL - 12 per case
4 Litres - 4 per case

Labels shows Batch No. Expiry Date, Manufacture Date, Reg. No.

Orderless Clear Liquid



Termite Treatment

Packaging:
1000 mL w/ sprayer - 12 per case



HOT WATER CERTIFICATION



CRT LABORATORIES, INC.

1680 North Main Street, Orange, CA 92867

(714) 283-2032 • Fax (714) 283-1365

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ASTM Physical & Mechanical • Chemical-Thermal Analysis • IAPMO Cell Class
Geosynthetic Materials • Plumbing & Faucet Assemblies • Resin & Finished Product Testing



TEST REPORT

PAGE 1 OF 2

FOR: Christle Limited
18 O'Meara Ind. Estate, Arima, Trinidad WI
PO Box 5020, Trinidad West Indies
Tel: (868) 646-7640 / Fax: (868) 646-7641
ATTN: Lauren Singh

LWR NO.: 20167 DATE: Sept. 26, 2016

BACKGROUND: Client submitted one (1) sample of CPVC Solvent Cement for testing (ID shown below). The sample was received on 08/19/2016 via customer-supplied courier. Visual inspection was performed on 08/19/2016 and no product defects were noted. Testing in accordance with client email received on 08/15/2016. The following additional information is shown below:
CRT order entry log date: 08/19/2016 / **Report due date:** 09/26/2016

SAMPLE ID: Christle CPVC Solvent Cement

PREPARATION: **Conditioning** – ASTM D618-13, 40 h in a standard laboratory environment
Dissolution Compound – previously acquired CPVC base powder stock for CPVC solvent cements


TEST PROCEDURES: **Solvent Cement for CPVC Plastic Pipe and Fittings - ASTM F493-14 (Vol.: 8.04 2016):**
Free Flowing – section 4.3, in conjunction with section 5.2
Gelation – section 4.4, in conjunction with section 5.2
Resin Content % – section 5.1, minimum = 10%
Dissolution – section 5.2, minimum = 3%
Viscosity – section 5.3, in conjunction with method-B of ASTM D1084-16 (10rpm)
Shelf-Stability – section 5.4, 30 days @ 120°F
Hydrostatic Burst Strength (Psi) – section 5.5, in conjunction with section 6.3
Hydrostatic Sustained Pressure Strength (Psi) – section 5.6, in conjunction with section 6.4
Markings & Identification – sections 10.1 - 10.1.8.3

TEST RESULTS: The results of testing are reported in data table one (1), attached.

CONCLUSION: Based on the results of testing, the sample submitted meets all performance requirements prescribed by ASTM F493-14 (Vol. 8:04 2016)...*Complies*

Specimen Retain Bin: BB (30 day hold only, unless otherwise noted)

CRT LABORATORIES, INC.

IAPMO R&T  ISO 9001:2008 Certified – Registered / ISO-IEC 17025:2005 Accredited

Ken A. Le Jeune
CEO / Laboratory Director

Raúl Gonzalez
Laboratory Technician

The liability of CRT Labs with respect to the work and report covered herein, shall in no event exceed the amount of the invoice. We recommend consideration that correlative data be generated by other laboratories in matters of litigation. CRT will retain tested samples for 30 days after testing is completed, unless other arrangements are agreed upon at the time order is placed. This report, whether in whole or in part, any logo, etc., in advertising or publicity must have CRT's written permission prior to use. This test data is for exclusive use of the client to who it is addressed and results apply only to sample(s) tested and does not apply to similar or identical products. This report shall not be reproduced except in full. Testing performed in accordance with ISO 17025. Form Q.S. 43 (10/05)

HOT WATER CERTIFICATION



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TEST REPORT

PAGE: 2 OF 2

FOR: Christle Limited
18 O'Meara Ind. Estate, Arima, Trinidad WI
PO Box 5020, Trinidad West Indies
Tel: (868) 646-7640 / Fax: (868) 646-7641
ATTN: Lauren Singh

LWR NO.: 20167 DATE: Sept. 26, 2016

TABLE 1

SAMPLE ID: Christle CPVC Solvent Cement
SPECIFICATION: ASTM F493-14 (Vol.: 8.04 2016)

(4.3) FREE FLOWING

Based on initial inspection of the sample, it appears to be very free flowing with no un-dissolved particles noted...*Complies*

(4.4 & 5.2) DISSOLUTION

Dissolution testing was performed on this sample by weighing 196 grams of the solvent cement sample and adding 5.88 grams of CPVC base powder resin (3% ratio base for solvent) and stirring @ a rate of 1,050 RPM for 1 hour. The CPVC resin completely dissolved and showed no signs of gelation. In addition, the cement was free flowing and had no evidence of lumps, un-dissolved particles, or any foreign matter that would have adverse effect on the quality or performance of the CPVC cement...*Complies*

<u>(5.1) RESIN CONTENT %</u>	<u>INERT FILLER %</u>	<u>MIN. RESIN %</u>	<u>(5.3) VISCOSITY</u>
16.84 / <i>Complies</i>	0.86 / <i>Complies</i>	10	833 (kinetic) / <i>Complies</i> (min = 500cPs) Medium bodied

(5.4) SHELF-STABILITY

The cement in the container in which was supplied, does not show signs of gelation or stratification by stirring after being aged 30 days @ 120°F...*Complies*

(5.5) HYDROSTATIC BURST

One (1) test assembly for each condition specified in Table 1 was set up and tested in accordance with section 6.3. No leakage or separations at any of the joints were noticed when a pressure was applied...*Complies*

73°F (min. 400 Psi)	180°F (min. 200 Psi)
660 / <i>Complies</i>	330 / <i>Complies</i>

(5.6) HYDROSTATIC SUSTAINED PRESSURE STRENGTH

One (1) test assembly was set up and tested in accordance with section 6.4. No leakage or separations at any of the joints were noticed when water pressure was applied...*Complies*

Test condition A	Test condition B
180°F	180°F
(521 psi / 6 min.)	(364 psi / 4 h)
521 / <i>Complies</i>	364 / <i>Complies</i>

(10) MARKINGS & IDENTIFICATION

ASTM F493 was confirmed on the label with complete verification of the products quality and intended use. In addition, the manufacturers name, trademark, and hazardous information were legibly printed on the can.

The following marks are present: Christle® Solvent Cement for PVC / CPVC Pipes & Fittings (Hot /Cold Water) 500 mL ASTM F493 Lot#063164 22:11 Barcode 6744004260038...*Complies*

The liability of CRT Labs with respect to the work and report covered herein, shall in no event exceed the amount of the invoice. We recommend consideration that correlative data be generated by other laboratories in matters of litigation. CRT will retain tested samples for 30 days after testing is completed, unless other arrangements are agreed upon at the time order is placed. This report, whether in whole or in part, any logo, etc., in advertising or publicity must have CRT's written permission prior to use. This test data is for exclusive use of the client to who it is addressed and results apply only to sample(s) tested and does not apply to similar or identical products. This report shall not be reproduced except in full. Testing performed in accordance with ISO 17025, Form Q.S. 43 (10/05)

COLD WATER CERTIFICATION



CRT LABORATORIES, INC.

1680 North Main Street, Orange, CA 92867

(714) 283-2032 • Fax (714) 283-1365

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Geosynthetic Materials • Plumbing & Faucet Assemblies • Resin & Finished Product Testing



TEST REPORT

PAGE 1 OF 2

FOR: Christle Limited
18 O'Meara Ind. Estate, Arima, Trinidad WI
PO Box 5020, Trinidad West Indies
Tel: (868) 646-7640 / Fax: (868) 646-7641
ATTN: Lauren Singh

LWR NO.: 20166 DATE: Sep. 16, 2016

BACKGROUND: Client submitted one (1) sample of PVC Solvent Cement for testing (ID shown below). The sample was received on 08/19/2016 via customer-supplied courier. Visual inspection was performed on 08/19/2016 and no product defects were noted. Testing in accordance with client email received on 08/15/2016. The following additional information is shown below:

CRT order entry log date: 08/19/2016 / **Report due date:** 09/16/2016

SAMPLE ID: Christle PVC Solvent Cement

PREPARATION: **Conditioning** – ASTM D618-13, 40 h in a standard laboratory environment
PVC Milling & Machining – CRT/ASTM method (lap-shear coupons)
Specimens - all shear specimens were prepared utilizing previously tested virgin PVC powder, with coupon dimensions meeting the required ASTM specification
Dissolution Compound – previously acquired PVC base powder stock for PVC solvent cements
Bond Conditioning – cemented Lap Shear specimens for 2, 16 & 72 hour cure times prior to compression testing

TEST PROCEDURES: **Solvent Cement for PVC Plastic Pipe and Fittings - ASTM D2564-12 (Vol.: 8.04 2016):**

Free Flowing – section 4.3, in conjunction with section 5.2
Gelation – section 4.4, in conjunction with section 5.2
Resin Content % – section 5.1, minimum = 10%
Dissolution – section 5.2, minimum = 3%
Viscosity – section 5.3, in conjunction with method-B of ASTM D 1084 (10rpm)
Lap Shear Strength (Psi) – section 5.4, (2h, 16h, and 72h cure times)
Hydrostatic Burst Strength (Psi) – section 5.5, minimum = 400 Psi
Markings & Identification – sections 10.1 - 10.1.8.3

TEST RESULTS: The results of testing are reported in data table one (1), attached.

CONCLUSION: Based on the results of testing, the sample submitted meets all performance requirements prescribed by ASTM D2564-12(Vol. 8:04 2016)...**Complies**

Specimen Retain Bin: BB (30 day hold only, unless otherwise noted)

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Ken A. Le Jeune
CEO / Laboratory Director

Raúl Gonzalez
Laboratory Technician

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COLD WATER CERTIFICATION



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TEST REPORT

PAGE 2 OF 2

FOR: Christle Limited
18 O'Meara Ind. Estate, Arima, Trinidad WI
PO Box 5020, Trinidad West Indies
Tel: (868) 646-7640 / Fax: (868) 646-7641
ATTN: Lauren Singh

LWR NO.: 20166 DATE: Sep. 16, 2016

TABLE 1

SAMPLE ID: Christle PVC Solvent Cement
SPECIFICATION: ASTM D2564-12 (Vol.: 8.04 2016)

(4.3) FREE FLOWING

Based on initial inspection of the sample, it appears to be very free flowing with no un-dissolved particles noted...*Complies*

(4.4 & 5.2) DISSOLUTION

Dissolution testing was performed on this sample by weighing 156 grams of the solvent cement sample and adding 5.88 grams of PVC base powder resin (3% ratio base for solvent) and stirring @ a rate of 1,040 RPM for 1 h. The PVC resin completely dissolved and showed no signs of gelation. In addition, the cement was free flowing and had no evidence of lumps, un-dissolved particles, or any foreign matter that would have adverse effect on the quality or performance of the PVC cement...*Complies*

<u>(5.1) RESIN CONTENT %</u>	<u>INERT FILLER %</u>	<u>MIN. RESIN %</u>	<u>(5.3) VISCOSITY</u>
16.68 / <i>Complies</i>	0.88 / <i>Complies</i>	10	787cPs (kinetic) / <i>Complies</i> (min = 500cPs) Medium bodied

<u>(5.4) Lap Shear Bond Str. (250/500/900 Psi min)</u>			<u>(5.5) Hydrostatic Burst</u>
<u>2hr Cure</u>	<u>16hr Cure</u>	<u>72hr Cure</u>	<u>(min 400Psi)</u>
<u>(Psi)</u>	<u>(Psi)</u>	<u>(Psi)</u>	
331	704	1,031	640
338	711	1,012	650
286	686	988	620
321	621	966	620
<u>264</u>	<u>721</u>	<u>1,061</u>	<u>640</u>
308 / <i>Complies</i>	689 / <i>Complies</i>	1,012 / <i>Complies</i>	634 / <i>Complies</i>

(10) MARKINGS & IDENTIFICATION

ASTM D2564 was confirmed on the label with complete verification of the products quality and intended use. In addition, the manufacturers name, trademark, and hazardous information were legibly printed on the can.

The following marks are present: Christle® Solvent Cement for PVC / CPVC Pipes & Fittings (Hot /Cold Water) 500 mL ASTM D2564 Lot#063164 22:03 Barcode 6744004260038...*Complies*

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All MSDS Sheets available upon request

📍 18 E & F O'Meara Industrial Estate, Arima Trinidad.

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L I M I T E D

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2021