

THE PRINTERS SHOPPER, LLC

Providing Supplies and Equipment to Printers Since 1970



Chemgon® Chemical Waste Treatment System

CHEMGON® WASTE TREATMENT – TOMORROW'S TECHNOLOGY TODAY.

Thousands of gallons of hazardous photo-waste are generated each month. It may be removed by a certified waste hauler or disposed of improperly. However, improper disposal is subject to fines up to \$22,000 and the use of a certified waste hauler may not be in your best interest because of the expense.

If you are a firm that generates 25 gallons or less a month of hazardous waste, you are considered a CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG) by the EPA and have the ability to choose an alternate disposal method. One such method is Chemgon®, a low-cost alternative that safely and effectively alters all photochemical waste into solids that are safe for regular landfill.

HOW DOES IT WORK, AND IS CHEMGON® SAFE FOR LANDFILL?

Chemgon® alters hazardous liquid waste into a nonhazardous industrial processed solid waste. Chemgon® is a patented polymer that permanently encapsulates photochemical waste by absorbing the waste into a sponge-like polymer crystal that neutralizes and bonds silver ions to itself and becomes a non-toxic, non-hazardous solid suitable for municipal landfill disposal or incineration for silver recovery (smelting). Once the 5 gallon container is full, you can dispose of the altered waste by depositing it in your trash. Once treated, the waste within the Chemgon® container is non-degradable and non-leachable.

By mixing together equal parts of developer and fixer or activator and stabilizer from a two part chemical system, the chemistry pH is neutralized to a level within the EPA guidelines for disposal. Chemgon® polymer has been formulated to react only within this pH range (approx. 6.0 - 10.0). Single-part diffusion transfer chemistries, which are highly alkaline, eventually drop to the Chemgon® active range as they are being used; and once exhausted, are suitable for the Chemgon® waste disposal system.

HOW A CESQG TREATS OR DISPOSES OF WASTE

A CESQG may treat hazardous waste using an on-site facility (Chemgon®) by beneficially treating or altering its waste prior to disposal under RCRA 40 CFR to a municipal land fill. When you use Chemgon®, it turns liquid into a solid. You are no longer regulated by the water/sewage department but by solid waste management. The criteria are different. A solid, under EPA'S definition, may look like brown sugar granules or like Jell-O. It does not have to be hard like a brick.



A CHEMGON® CONTAINER WILL ALTER UP TO FIVE GALLONS OF:

- Lith, Rapid Access, Hybrid Developer and Fixer
- Photo Typesetting Activator and Stabilizer
- Photographic Activator and Stabilizer
- Diffusion Transfer Activator or Developer
- A.B.Dick MEGA Activator and Stabilizer
- A.B.Dick QuickSilver™ Activator and Stabilizer
- Mitsubishi Silvermaster® Activator and Stabilizer
- Agfa Supermaster® Activator and Stabilizer
- 3M Onyx® Developer and Stabilizer
- B & W Film and Paper Developers
- C41 Developer, Bleach, and Stabilizer
- RA4 Developer, Bleach/ Fix, and Stabilizer
- E6 Developer, Reversal Bath, Color Developer, First Bleach, Bleach, Fixer and Final Rinse
- R3 Developer, Color Developer, Bleach and Fixer
- Ciba P3, P4, P3X Developer and Fixer Only
- Plus many other photochemical processes

(More)

 Toll-Free: 800-341-6650  FAX: 425-828-6384

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CHEMGON® HAS A NUMBER OF BENEFITS OTHER DISPOSAL METHODS DO NOT OFFER

- Developer and fixer waste are disposed of together. Once the waste has solidified, you can place the containers with your regular municipal trash; no special services are required.
- Liquid photo-waste can be added to the Chemgon® container all at once or over time should your quantities be very small.
- You do not have to manifest with the EPA. Just keep a personal log. (We can provide one.)
- Hazardous photo-waste becomes non-hazardous instantly.
- Developer and fixer fluids can be mixed together without an odor.
- Chemgon® is economical and competitively priced to waste hauling services when small quantities are generated.

WILL I BE IN COMPLIANCE IF I PURCHASE AND USE CHEMGON®?

Yes. Since you will not be discarding any waste chemicals into the drain or evaporating effluents into the air, you will meet all current Federal and local guidelines for sewage and air disposal and be in compliance. Chemgon® renders your photo waste non-hazardous.

GENERAL INFORMATION

The EPA Guide to Pollution Prevention (EPA 625/7-90 CO 9, p.11) states that photographic chemicals containing silver are hazardous and that they are not to be discharged into the wastewater treatment system. Developing agents including Mitsubishi Activator, A.B.Dick MEGA Activators and Afga Supermaster Activator have significant BOD's (Biological Oxygen Demand) and should be treated before entry into the water system. Developer and fixer fluids should not enter the water system without some form of treatment. Developer is a key component in decreasing the oxygen content of water and local water departments may have more problems regarding developers than fixers. Silver found in photo processing waste is becoming a hot spot in many areas. Many states are presently revising their water standards to meet the Federal Clean Water Act.

PRODUCTS NOT FOR USE WITH CHEMGON®

Electrostatic chemistries, fountain solutions, etches and blanket washes should NOT be used with Chemgon®.

ORDERING INFORMATION

Call Toll-Free: 800-341-6650 for current pricing on this product.

FAX: 425-828-6384

E-Mail: sales@theprintersshopper.com

www.theprintersshopper.com



WHAT TESTS WERE DONE ON CHEMGON®?

Chemgon®-treated waste passes the Paint Filter Test, the TCLP Test for Metals, TTLC, STLC, and pH. It also passed the California 96 Hour Acute Aquatic Toxicity Test.

Test results of Chemgon® for silver in photo chemicals and Silvermaster chemistry:

TCLP Test	EPA Limit Parts Per Million	Chemgon® Parts Per Million
Rapid Access Dev./Fix.	5.0 ppm	0 ppm
Hybrid Dev./Fix.	5.0 ppm	0 ppm
Diffusion Transfer	5.0 ppm	0 ppm
Silvermaster Chemistry	5.0 ppm	0 ppm
Color Chemistry Mix	5.0 ppm	.015 ppm

Actual TCLPs and other test results are available for products tested. Contact The Printers Shopper, 800-341-6650.

USE CHEMGON® WASTE TREATMENT TO DISPOSE OF THE FOLLOWING CHEMICALS

A.B.Dick Chemicals:

MEGA® Chemistries
38750 / 38745 Activator
38756 / 38753 Stabilizer

QuickSilver™ Chemistries
83-8-107761 Activator
83-6-107763 Stabilizer

Rapid Access Film Chemistries
55050 / 55055 Camera Developer
26101 / 26131 Camera Fixer
55060 / 55065 Itek® C-Dev Developer Concentrate
55070 / 55075 Itek® C-Fix Fixer Concentrate
83-3-104649 Multigraphics Premixed Developer
83-9-104650 Multigraphics Premixed Fixer
83-4-104648 Multigraphics Developer Concentrate
83-6-104646 Multigraphics Fixer Concentrate

Itek 500 Series Camera Diffusion Transfer Chemistries
40587 Diffusion Transfer Activator
40588 / 40590 Diffusion Transfer Developer

Other Two-Part Chemical Systems:

Silver Plate Chemistries
Camera Film Chemistries

Note: Mix equal parts of Activator and Stabilizer or Developer and Fixer in the Chemgon® container.