

## Short cutting BG “flush” services

Today, many BG services are designed around a piece of equipment because it is needed to install BG flush products and inhibitors and to exchange fluids after the flush has been performed. Questions continue to come in from the field asking about the consequences of installing BG flush chemicals without doing the fluid exchange afterwards. The answer should always be “NO!” Performing automatic transmission, power steering, cooling system, and engine flushes without removing the old contaminated fluid afterward is asking for catastrophic component failure. BG flush chemicals are designed to be installed into components, allowed to clean for a short period and then be removed by either draining the host fluid or exchanging the host fluid out of the component. Occasionally BG gets calls about a product or flush getting installed into a component only to discover that a drain or exchange cannot be performed. With facts in hand, BG tech service personnel may give advice that the risk of damage is low enough that it doesn’t warrant extreme measures to remove the flush. ***Don’t take this as a blanket statement that it’s okay to skip the exchange step on a regular basis.***

## **No benzene in BG products**

By Dustin Willhite, Director of Laboratories

The purpose of this bulletin is to inform and educate you on the subject of hazardous chemicals as they apply to our products. For example, we get quite a few questions each year concerning the chemical benzene and whether it is used in any of our products. Let us shed some light on this and hopefully dispel any misinformation that may exist about its use.

Benzene is classified as an aromatic hydrocarbon and is a liquid solvent at room temperature. It is regulated as a "controlled substance" because it has been shown to pose a long-term health hazard, and it is listed as a carcinogenic substance (cancer-causing). As a controlled substance, it must be listed on an MSDS if used at concentrations at or above 0.1%.

As a hard and fast rule, BG Products, Inc. does not use benzene as an additive or supplemental ingredient in any of our products. Sometimes an MSDS will list a number of chemicals that are mandated to report by law, even though they are only present as a tiny fraction of the entire mixture. In cases like this, even though a chemical is listed on the MSDS, it is to be remembered that its concentration may be far below that which would cause a health risk. To determine the presence of a chemical, simply look for the CAS (Chemical Abstract Service) number listed under the ingredients section on an MSDS. This CAS number is unique for each chemical. For instance, the CAS number for benzene is 71-43-2. Unless the chemical listed has this exact number, it is not benzene. Although other chemicals may contain the word "benzene," if they have a different CAS number, they are NOT benzene. It is important to remember that other chemicals that are similar to benzene, but not as toxic, may contain the word "benzene" in their name. One such example is 1,3,5-Trimethylbenzene. This is NOT the same chemical as benzene, and its hazards are not the same as those of benzene. Do not confuse chemicals such as these with benzene itself, for they are quite distinct and different and are not treated in the same manner from a health and safety standpoint. All other chemicals that are derivatives of benzene have their own set of standards and risks, which compare similarly to other chemicals commonly found in automotive and vehicle service shops.

.We all-too-frequently hear of instances where competitive salespersons have exploited this word-association of benzene to scare off clients by inferring that we use benzene in our products. This is false information and should be corrected immediately with the truth.

**BG Products, Inc. does not use benzene as an ingredient in any of our chemicals or products.** The USEPA and OSHA regulate the use of benzene and by law require that it be listed on MSDS information. As such, every MSDS for products manufactured by a company should list benzene if indeed it is in the respective product at concentrations of 0.1% or greater.

BG Products, Inc. takes care to formulate each and every one of our products so that they are as safe and effective as possible. When used as directed, our products will not cause any increased health risks to your customers.

In closing, it is safe to say that many misconceptions about toxic chemicals exist, especially benzene. Please know that it takes an educated understanding of these chemistries to properly deduce their risk. Do not make the mistake of allowing unqualified sources to misinform either you or your customers about the safety of our products. Be assured that the federal government regulates all hazardous substances, and we are in complete compliance in every respect.

As a point of information for your BG customers, you may inform them that benzene can be found in gasoline, automotive exhaust, paint fumes and even cigarette smoke, but not in BG products!

## **BG engine cleaners comparison**

There exist both collective similarities and unique differences between our engine cleaner products. We wish to highlight the differences between them so that correct application and optimal performance can be achieved.

**BG Quick Clean for Engines, Part No. 105** – One 11 oz. (325 mL) dose of BG Quick Clean for Engines will effectively remove soft engine deposits and keep a crankcase clean if used every oil change. During the 10–15 minute cleaning period it will add sufficient detergents and dispersants to the engine oil so as to promote the best removal of oxidation byproducts and other contaminants. It works very well on the lower oil-control rings.

It is not designed to be an aggressive cleaner for neglected engines or those with hard baked-on carbon, such as that found on the top compression piston ring lands. This product is the least aggressive of the three BG engine cleaners.

**BG 109, Part No. 109** – One 11 oz. (325 mL) dose of BG 109, when used with the BG Performance Oil Changer, Part No. 9800, provides a premium level of engine deposit removal. By incorporating a fast-acting, highly specialized mix of penetrating detergents, it is able to dissolve and remove even hard baked-on carbon from top piston rings and high temperature crown surfaces. In as little as 10 minutes BG 109 will restore cylinder compression, proper ring gap and overall cylinder balance. Incorporating the BG 9800 tool insures maximum removal of contaminants through air-actuated draining. BG 109 is a very effective cleaner product, and as such, any remaining residual product harmlessly evaporates under normal engine operation shortly after the service is completed.

**BG Engine Purge, Part No. 120** – One 32 oz. (946 mL) dose of BG Engine Purge will clean in a similar fashion and with equal effectiveness as BG 109. It effects excellent removal of all types of sludge and deposits and will restore engine compression. However, the primary difference is that BG Engine Purge takes three times the amount of cleaner to accomplish the same result as 11 oz. of BG 109. BG Engine Purge also requires a longer engine run time, (15–20 minutes) for best results.