

POWDER



# AMALGACLEAR®

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**AmalgaClear®** is a specialized binder containing IMD®, our proprietary thiol-functionalized silica metal binder, combined with acacia gum, modified citrus pectin, and Quali® C Vitamin C, designed to help the body safely and effectively detoxify mercury and other heavy metals during the removal of dental amalgams.



## Supplement Facts

Serving Size: 1 tsp. (3.64g)	Amount	% Daily
Servings Per Container: 20	Per Serving	Value
Quali™ -C Vitamin C (from European Sodium Ascorbate)	784mg	871%
Sodium	100mg	4%
Dietary Fiber	1g	4%
Silica Extract†	100mg	**
<b>Proprietary Blend:</b> Efistab™ AA (Acacia Gum), PectaSol-C® Modified Citrus Pectin	2658mg	**

\*Percent Daily Values are based on a 2,000 calorie diet.  
\*\*Daily Value not established

**Other Ingredients:** Water, glycerin, ethanol, tocopherol, natural mixed tocopherols

## EDUCATION

### HEAVY METAL TOXICANTS IN "SILVER" DENTAL AMALGAMS

For 150 years, "silver" dental amalgams have been used to fill cavities in teeth caused by tooth decay. Dental amalgam is silver in color but is not made of only silver; rather, it consists of a conglomeration of metals, including elemental mercury, tin, and copper. The elemental mercury in dental amalgam creates mercury vapor within the oral cavity, causing ongoing mercury exposure and potentially precipitating chronic conditions such as Alzheimer's disease.<sup>1,2</sup>

In September of 2020, the FDA released a statement advising against the use of dental amalgams in "high-risk" groups, including pregnant women, women planning to become pregnant, children, people with pre-existing neurological disease, people with impaired kidney function, and those with a known sensitivity to mercury or the other metals in dental amalgam material.<sup>3</sup> However, this statement overlooks the fundamental fact that elemental mercury is toxic to all humans with ongoing exposure.

Many adults choose to get their dental amalgams removed due to increased awareness of the health risks posed by exposure to the metals in dental amalgam. However, dental amalgam removal is not something to be taken lightly. Improper removal of dental amalgam and insufficient detoxification support before and after the procedure can cause a redistribution and reabsorption of mobilized metals in the body, potentially harming one's health. Patients must choose a dentist qualified to perform amalgam removal and support their detoxification pathways before and after the dental amalgam removal procedure.

Thiol-functionalized silica, acacia gum, modified citrus pectin, and vitamin C support the binding and elimination

of metals after the removal of dental amalgams, facilitating the safe detoxification of mercury and other toxic metals from the body.

## **FUNCTIONALIZED SILICA, ACACIA GUM, AND MODIFIED CITRUS PECTIN EFFICIENTLY BIND METALS IN THE GUT**

Heavy metals, such as mercury, can have significant harmful effects on the kidneys. For this reason, the gastrointestinal tract is the preferred route of elimination for heavy metals. Thiol-functionalized silica, acacia gum, and modified citrus pectin intervene in the enterohepatic circulation of heavy metals, efficiently mopping up these metals and safely ushering them out of the body in the stool.

Thiol-functionalized silica extract delivers sulfur-based thiol groups, which bind and eliminate heavy metals in the intestine while quenching free radicals.<sup>4</sup> It also enhances phase III detoxification, a system of transporters that ushers mobilized toxins out of the body.

Thiol-functionalized silica does not enter the bloodstream and thus does not cause redistribution or surge of mobilized metals in the body that could potentially harm the liver or kidneys. It intercepts methylmercury and other metals trapped in enterohepatic circulation, binding them and escorting them out of the intestines. It thus allows organ and tissue-bound mercury to safely drain into the blood at a natural rate.

Thiol groups also quench inflammation localized in the intestine, inhibiting the vicious cycle of inflammation and transporter impairment that exacerbates toxicity.

Modified citrus pectin is a soluble dietary fiber derived from the white fleshy inner portion of citrus peels. Supplementation with modified citrus pectin reduces the body burden of several toxic metals, including lead, arsenic, and cadmium. It also alleviates inflammation, an important barrier to effective detoxification.<sup>5</sup> Modified citrus pectin is exceptionally effective at mopping up metals in the gut and ushering them out of the body via stool.

## **ACACIA GUM SOOTHES THE GUT AND FACILITATES ELIMINATION**

Acacia gum rounds out the array of binders in our formula. It soothes the intestinal mucosa and offers fluidizing effects, counteracting the slowing of gut motility that can occur with strong binding agents such as thiol-functionalized silica.<sup>6</sup>

## **VITAMIN C PROTECTS THE BODY FROM FREE RADICAL DAMAGE**

Inside the body, heavy metals induce the generation of free radicals, unstable atoms "deficient" in electrons that travel throughout the body, stealing electrons from molecules in our DNA, proteins, and cellular structures. Left unaddressed, heavy metal-induced free radicals can damage tissues and organs, causing physiological dysfunction.

Vitamin C is a potent reducing agent, meaning it readily donates electrons to free radicals, stabilizing their biochemical structure, and inhibiting a chain reaction of oxidative stress.<sup>7</sup> Vitamin C's ability to terminate these harmful chain reactions makes it the body's most important non-enzymatic, water-soluble antioxidant in blood plasma and tissues. Together, the antioxidant properties of vitamin C influence numerous physiological processes, including:

- Protect lipids, proteins, DNA, and RNA from reactive oxygen species (ROS) and reactive nitrogen species (RNS)<sup>5</sup>
- Regenerate the fat-soluble antioxidant vitamin E<sup>8</sup>

- Boost intracellular levels of glutathione, the body's master detoxifier<sup>9</sup>

The synergistic effects of vitamin C alongside thiol-functionalized silica, acacia gum, and modified citrus pectin may optimize antioxidant activity and metal-binding, ensuring that toxic heavy metals from dental amalgams are efficiently cleared from the body and that metal-induced free radicals are neutralized.

**Quicksilver Delivery Systems**<sup>®</sup> improve upon liposomal and emulsification technology with smaller, more stable particles made from the highest-grade ingredients available. In addition to exceptional absorption rates, these tiny liposomal and nanoemulsified particles increase diffusion across mucous membranes, enhance lymphatic circulation of nutrients and support cellular delivery.\*

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References available at [quicksilverscientific.com/amalgaclearreferences/](https://quicksilverscientific.com/amalgaclearreferences/)

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