Buckman

SHUT DOWN THE FOULING, NOT YOUR STARCH PRODUCTION

Improve microbiological control, starch yield and safety with Oxamine®

Conventional microbicides, such as chlorine dioxide and peracetic acid, can let fouling continue to undermine your starch production. They can increase environmental and worker safety risks. And their use often results in high energy and chemistry costs and costly shutdowns for cleaning or corrosion repair.

But now there's a better microbicide for starch. Oxamine technology from Buckman.

Oxamine works harder than conventional oxidizing microbicides in high demand systems to keep process water cleaner, reduce the use of chlorides and improve overall efficiency. So, you can increase yield, reduce costs and improve the quality of your starch without adding chlorate over the approved level.

Switch to Oxamine. The better microbicide for starch.

Buckman

OXAMINE®

MORE STARCH. FEWER WORRIES.

Microbiological growth in your starch water systems reduces efficiency, increases energy costs and limits yield and quality. Unfortunately, the use of chlorine dioxide is often insufficient, leading to shutdowns and high caustic usage. Peracetic acid, on the other hand, is a potential explosion hazard, is highly corrosive, and often must be aided by chlorate producing chemistry. That's why Buckman developed Oxamine.

Greater stability.

Oxamine is more stable and is not affected by high organic demand. So, you'll use less of it and save money.

Better penetration.

Effective against a broad range of microorganisms, Oxamine penetrates the colony, instead of just reacting with the surface. So, your plant benefits from cleaner water systems.

Unmatched safety.

Oxamine can replace dangerous chemistries that produce high levels of chlorate. Even better, Oxamine utilizes Buckman's proprietary feed equipment designed for industry-leading safety and reduced human-chemical contact.

Safety features include:

- Leak detection
- A built-in separator to keep ammonia and bleach apart in the case of a line break or other issue
- Automatic flushing in case power is lost
- Periodic inspection by Buckman personnel to ensure efficient, safe operation

Plus, the Oxamine system can be linked to your DCS or remotely monitored so you can track vital activity.

Lower total cost.

Oxamine increases efficiency, so your plant can use less energy, reduce operating costs and reduce downtime. In addition, feed technology is owned and maintained by Buckman, so no capital investment is necessary.

Reduced environmental impact.

Oxamine has less of an environmental impact than conventional halogen treatments, degrading into simple, non-toxic salts while minimizing the formation of AOX compounds and ensuring that chlorate levels are maintained at acceptable levels.

START TREATING YOUR STARCH, YOUR PLANT AND THE ENVIRONMENT BETTER WITH OXAMINE.

The sooner you switch, the sooner you can start saving. Buckman makes it easy. Contact a Buckman representative or visit **buckman.com** for more information.

CASE STUDY:

MORE FLOUR TONS, LESS RISK.

The challenge: Pressured by regulations to switch from hypochlorite to peracetic acid, a wheat starch producer found that the acid didn't bring them the level of microbiological control they needed, and was very corrosive. It was also an explosion risk. The lack of efficacy required them to continue dosing hypo when contamination got out of control. Even then, the plant experienced starch loss and long shutdown periods due to organic plugging of the heat exchangers. Significant amounts of caustic were used to control pH.

The solution: To significantly increase effectiveness and reduce risk, Buckman replaced the peracetic acid treatment with the Oxamine program.

The results:

- Reduced Chemical Oxygen Demand 8% per flour ton, enabling the plant to avoid shutdowns, even in the summer, thereby increasing yield.
- Reduced caustic soda usage, saving US $100,000 per year.
- Increased flour tons per hour 2.67%.
- Better quality of final product with less non-compliant product (glucose plant).
- Increased heat exchanger efficiency for less maintenance and fewer CIPs.

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