



FAQ FOR SMARTWASHER®

What is BIOREMEDIATION?

Bioremediation is the use of biological agents such as microbes or plants to break down or neutralize “hazardous substances” or “environmental contaminants” into harmless by-products of carbon dioxide and water. The process of bioremediation uses no chemicals and is listed as one of the Environmental Protection Agency’s (EPA) innovative technologies.

This technology has been around for a long time. It was used in 1989 for the Exxon Valdez Oil spill, Alaska and the 2010 Deepwater Horizon Oil Spill in the Gulf of Mexico. SmartWasher®, however, is the first parts washer to use this technology to clean dirty parts.

What is an Ozzy®?

An Ozzy® is a microbe that exists in a freeze dried state within the OzzyMat® (filter) of a SmartWasher® parts washer. Once the unit is turned on and the OzzyJuice® cleaning solution flows through the mat, the Ozzy® microbes come to life and transform carbon based products – the grease, oil and other contaminants – into a harmless by-product of carbon dioxide and water, about the amount a house plant produces.

These microbes are naturally occurring and harmless to humans but live off the greases and oils cleaned off dirty parts.

How do I know the SmartWasher® is safe to use?

SmartWasher® cleaning solution, or OzzyJuice®, is a water-based, industrial strength, non-flammable and pH-neutral. There are five different OzzyJuice® cleaning solutions available. They are non-corrosive for the user and the environment.

SW-4 OzzyJuice® Heavy Duty Degreasing Solution has been awarded the “Safer Choice” designation by the Environmental Protection Agency. The EPA awards the Safer Choice seal to products that go through an extremely rigorous EPA review process to ensure that all the ingredients are safe for the user and the environment.

What happens to the grease, oil and other contaminants in the SmartWasher®?

Grease, oil and other contaminants are broken down by the Ozzy® microbes and transformed into a harmless by-products of carbon dioxide and water. Any solid particulate matter, like sand, grit, and dirt are trapped in the OzzyMat® layers. This leaves the OzzyJuice® clean and strong for future use.

How much oil can you put into the SmartWasher® at one time?

Just like all parts washers, excessive greases and oils should be wiped off the part prior to cleaning. The SmartWasher® can handle a lot of tough industrial dirt and grease, but was not designed to be treated as a waste oil dump.

How quickly can the Ozzy® microbes break down oil and grease?

Once they are activated, the Ozzy® microbes work to remove grease and other contaminants. Assuming the system is operating optimally, (OzzyJuice® temperature between 108°F to 115°F and the OzzyMat® routinely changed a minimum of once every 30 days) the rate at which the hydrocarbons remediate can approach 80% every seven days. Analyses performed on samples of used OzzyJuice® from an operating SmartWasher® consistently show oil and grease levels in the 1,400 parts per million range. By comparison, used, non-bioremediating, aqueous cleaners can average over 20,000 parts per million of oil and grease.



Solutions to Keep You Moving™

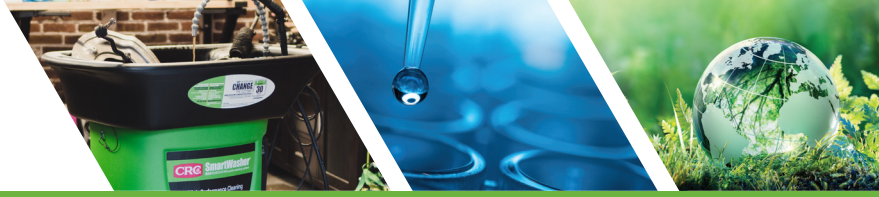
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Does anything kill Ozzy®?

Yes, any biocides like bleach and Lysol, or any chemicals that kill living things like some strong pesticides and rat poison, will kill Ozzy® microbes.

How often do I change the OzzyMat®?

The OzzyMat® must be changed once a month. Once a week peel away and dispose of a white layer from the OzzyMat®. The white layers trap the larger pieces of grease and oil as well as the grit or particulate cleaned off the dirty parts. After the 4th week, dispose of the last layer and replace it with a fresh OzzyMat®. The microbes have a life cycle – they eat, reproduce, age and then die off. Over time your microbes will slow down their reproduction and their grease consumption. Changing your OzzyMat® once a month helps ensure new, fresh microbes enter the SmartWasher® which will maintain the cleanliness of your OzzyJuice® and decrease the possibility of sludge build-up. The more microbes you have in the system the cleaner your OzzyJuice® will remain.

How do I dispose of the OzzyMat®?

You need to dispose of the OzzyMat® in accordance with your federal, state and local regulations. However, in many areas the OzzyMat® can be disposed of as solid waste. A non-leaching, sealed disposal bag is included with every OzzyMat®.

How often do I change the OzzyJuice® or the fluid?

As long as you are changing the OzzyMat® once a month and the SmartWasher® is being used according to the manual, and is not being used as a waste-oil dump, you should never have to change or haul away used OzzyJuice®. This is one of the biggest advantages of the SmartWasher® system. Through the process of bioremediation, the OzzyJuice® cleans the dirty parts and the Ozzy® microbes clean the OzzyJuice®, leaving you with clean OzzyJuice® to work with every time.

Since I don't need to change the OzzyJuice® out, how often will I add OzzyJuice® to the SmartWasher®?

The SmartWasher® is equipped with a low fluid indicator light. When this light comes on you simply add (1) 5 gallon container of OzzyJuice® to bring the fluid level up to normal. With normal use, you will add (1) 5 gallon container of OzzyJuice® approximately every six to eight weeks.

Could I just add water to the SmartWasher® to adjust the fluid level instead of using OzzyJuice®?

No, adding water will dilute the OzzyJuice®, which will severely impact its performance.

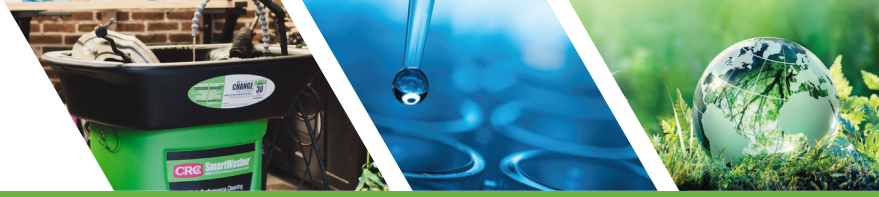
How well does OzzyJuice® clean?

OzzyJuice® is extremely powerful and will clean as well as most premium solvents. However it does clean differently from a solvent. OzzyJuice® is a surfactant and needs to break the surface tension between the grease and the part to be clean rather than giving the illusion of dissolving grease like a solvent. With the OzzyJuice®, the grease actually lifts off the parts leaving behind a completely clean surface. You can actually paint a surface that has been cleaned with OzzyJuice® without rinsing.

Will OzzyJuice® clean carburetors, transmissions, aluminum, brakes and anything else in my shop?

Yes, it will and it will not damage non-metal components that might be attached to the parts you are cleaning. It also works great on rubber, plastic fittings and even textiles, like mechanics gloves. Cleaning times may vary depending on the type and amount of grease being cleaned.





Can I soak parts in the OzzyJuice® or the SmartWasher®?

No, because the OzzyJuice® is an aqueous, or water-based surfactant. Soaking parts in the SmartWasher® can cause oxidation (rusting) in some metals, particularly soft metals such as aluminum. After you have finished washing your parts in the SmartWasher®, and if you are not going to reuse them right away, we recommend re-lubricating or spraying them with CRC SP-350 Corrosion Inhibitor to protect them from the elements and prevent oxidation.

Why doesn't OzzyJuice® damage my hands like solvents?

OzzyJuice® is a pH-neutral, water-based degreasing solution that doesn't dry, crack or irritate the skin like solvents. Solvents are harmful to the skin cells, pulling fat cells from the skin, and can cause extreme drying, redness, blisters, and possible dermatitis. OzzyJuice® does not cause any of these issues.

Can I use other fluids in my SmartWasher®?

The SmartWasher® parts washing system was developed to work effectively as a whole and complete system; SmartWasher®, OzzyJuice® and OzzyMat®. Other solutions may damage the machine or kill the Ozzy® microbes, which eliminates all the advantages of using the SmartWasher®. Using other solutions in the SmartWasher® will also void the warranty.

Why is the SmartWasher® heated?

Warmed fluid keeps Ozzy® microbes eating and reproducing faster – the more microbes you have, the cleaner the fluid will remain.

Can the SmartWasher® overheat if the OzzyJuice® gets low?

No, the heater automatically shuts off when the "Low Fluid" indicator illuminates. The pump will continue to operate, but the heater won't come back on until (1) 5 gallon container of OzzyJuice® has been added to the system.

So the SmartWasher® is made from plastic, that doesn't seem very tough for industrial applications?

The SmartWasher® was designed with Impact-Resistant Construction- molded from plastic specifically designed to work in very tough situations and stand up to very heavy weights. All but one of five different SmartWasher® units has a load capacity of 500 lbs. SmartWasher® SW-37 Mobile Heavyweight Parts Washer has a load capacity of 1000 lbs.

- Flexible Faucet – Bendable design allows user to shoot fluid stream directly at grimy parts.
- Flow-Through Brush – Scrub away stubborn grease problems with the durable brush.
- The OzzyMat® – Disposable, microbe-impregnated mat traps particulate matter down to 50 microns in size. When combined with OzzyJuice®, microbes are activated and released into the system. The microbes can only live in the OzzyJuice® and will die off as a part is drying outside of the SmartWasher®.
- Pump Control Timer – Economical timer saves money by turning off fluid flow after a set time. System is equipped with a timer that can be set to 10 or 30 minute run times.
- Re-circulating Pump – Sump action re-circulates system fluid and microbes through machine.
- Industrial Heater – Built-in heater keeps fluid at a comfortable 99°F to 105°F. The heat can also be adjusted, depending on the OzzyJuice® solution being used, to a 105°F to 115°F range.





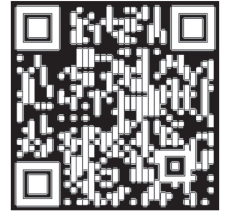
SmartWasher®
BIOREMEDIATING parts washing system



Maintenance Made Easier

CRC has developed a fully integrated SMS (text) reminder platform that allows for end users to sign-up via an online form to receive free monthly alerts to ensure the OzzyMat® is changed on time. This will ensure your CRC SmartWasher® is maintained correctly.

1. Scan the QR code and complete a quick form.
2. Verify your email address.
3. Receive monthly text reminders



Need More Information?

Contact CRC Technical Service:

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