

ECOLO® *AirSolution*™

ODOUR CONTROL

Eliminate odours the natural way

AirSolution™ formulations are water-soluble liquids, with advanced odour elimination technology, designed specifically to neutralize various organic odours arising from a multitude of sources. Our solutions contain a complex proprietary blend which has proven effective in eliminating targeted malodours. When the diluted product is misting in contact with odorous air, it effectively reduces the intensity of airborne odours by active counteractions.

Our odour control solutions are primarily designed to work against organically based odours. Therefore, we will concentrate on organically based odours, not on man-made odours from chemicals and/or altered organic matter such as plastics, oil, etc. Our solutions are formulated for use in the following applications.

- **Wastewater** - Neutralizes offensive odours related to wastewater treatment processes, such as hydrogen sulphide, mercaptans, and other organic sulphur-based compounds. Applicable for large environmental sites such as wastewater treatment systems.
- **Waste Disposal** - For treating airborne odours and repelling nuisance flying insects that may originate from solid waste materials in commercial and industrial applications such as dump stations, dumpsters, compactors, recycling areas, and food waste disposal.
- **Industrial** – Optimised to neutralize offensive odours created by petrochemical and metals processing operations.
- **Food & Beverage** - Specifically designed for eliminating odours from processing exhausts at restaurants and food processing facilities.

ORGANICALLY BASED ODOURS

An organically based odour is what nature creates during the decomposing of animal and vegetable matter. Nature creates the odour by using bacteria, oxygen and water to attack the organic matter and to convert it into a state that will allow it to be absorbed back into nature. As in all that nature does, there is a very solid reason for each action and there is always a reaction process.

Nature makes odours during the decomposing of organic matter for two reasons: to attract and to detract. It attracts insects and other animals that help in the breaking down process of organic matter by using it or consuming it. Nature also makes odours to deter animals, humans and other species that could be potentially harmed by the organic matter, or made ill by the bacteria and insects that are involved in breaking down the organic matter to a point where it can be absorbed back into nature. The gaseous product in the natural process of decomposition is what we call an odour and to each species odours mean different things. It is a 'dinner bell' for some, and a 'warning bell' for others, but the creation of odours, being a natural process, should not be stopped by artificial means.

For many years, humankind has tried to stop or suspend this natural process by using chemicals and as usual, when man fights nature, he loses. Not only does man lose, but the other species living on and sharing this planet are adversely affected too. When humankind tried to eliminate insects using D.D.T., nature made better, stronger insects that could resist it, but the D.D.T. caused problems and even death for the higher species in the food chain such as birds and fish.

Nature makes odours for specific reasons and when the purpose has been served, nature uses natural methods to eliminate the odours. Have you ever been walking in a forest, field or vegetated area and came upon an animal carcass in the process of decomposing, or a collection of garbage in the same setting also decomposing? You would have noticed that you could not detect any foul odours until you were within 18-24' of the site. On the other hand, if a decaying animal or pile of garbage was left in a parking lot or on the road side, you would be able to smell the emanating odours from 75-150' away. The reason is, on asphalt or concrete or any man-made environment, there is no natural deodoriser working to eliminate the odours and to absorb them back into the natural process. In a natural setting, nature deodorises using trees, flowers, grass and other vegetation which produce fragrant oils and vapours with the natural ability to attack and destroy organic odour molecules. Nature does not kill bacteria to stop odours; it breaks up the unnecessary odour molecule causing the bacteria to die naturally after it has completed its mission to decompose the organic matter.

We know that we are not smarter than Mother Nature. We definitely are not going to get into a boxing ring with her or try to trick her with a masking agent. We have learned from her, thus creating a solution which emulates and duplicates the natural decomposing and deodorising process in an unnatural atmosphere.

AirSolution™ is a mixture of essential oils from vegetation growing worldwide. Some formulations have up to 354 different ingredients. We need these different ingredients because each organic matter produces different odours when it is naturally decomposed. Waste odours emanate from several sources of decomposing organic matter the combination of which changes from day to day, and sewage odours also emanate from several sources of organic matter and they change on an ongoing basis. However, the base odour from each of these areas is usually the same, though different from each other; the only variations are strength, intensity and new organic matter introduced.

AirSolution™ must be formulated to eliminate not only the base odours, but the different odours that can be produced from a wide variety of organic matter from each area. Formulations for garbage odours will not be as effective on cooking odours and vice versa. Each formulation is for specific odours and they should be used as recommended.

Everything in nature has a counter balance. Nature makes odours and then when they have served their purpose, nature destroys the odours. *AirSolution™* consists of these natural ingredients in a much more concentrated form because we need to work faster than nature's process of odour control. The natural process of odour control is introduced into unnatural settings. Instead of a forest to work in it must work in garbage rooms, washrooms, sewage treatment plants etc.

ECOLO[®] *AirSolution*[™]

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