

## **ODAlim®0900 V**

### **Understanding Active Chemistry**

The ODAlim®0900 V range of vapour odour solutions specifically formulated to deodorise noxious odours produced during waste disposing and recycling operations.

Many of the odorous compounds associated with waste processes are the products of incomplete oxidation<sup>1</sup>. Others odours are the inevitable result of uncontrolled decomposition (aerobic and anaerobic) of the organic fraction of these waste materials. Decomposition occurs due to biological activity, but also due to stresses in temperature, moisture, and pressure during grinding, sorting, compacting, materials movement, and other processing activities<sup>2</sup>.

ODAlim®0900 V was developed to function in the same phase as the odours – the gaseous or vapour phase. Using wet technologies – misting and fogging systems are acceptable if all odorous gas can be collected and passed through the mist or fog, and if the added water is not a problem to personnel and equipment. But it must always be remembered that a water based, particle of even 5 microns (about the smallest particle size available in these systems) will never move as fast or as far as even the largest gas particle. Consider the example of ammonia gas, which has a density of 0.589 that of air. When you consider that any volume of water, regardless of how small, will have a density 784 times that of the same volume of air (at sea level), the relative impossibility of chasing gas with water becomes obvious. Even a "heavy" odor, such as methyl mercaptan (1.66 times the density of air), still has a density of 0.002 that of an equal volume of water. This is the scientific reason for choosing vapour as the best method of odour control. There are other reasons. As previously mentioned, keeping moisture low in enclosed areas can be essential for visibility and safety reasons. In large scale outdoor operations, conservation of water can be an important motivation.

To summarize, vapour emissions are created at approximately the same range of densities as the odors they are trying to contact and react with. No water is required and only air is added. The treatment is invisible, quiet, and dry.

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