THE CHEMISTRY OF THE SMELL OF DECOMPOSITION

THE STAGES OF DECOMPOSITION



1. Fresh Stage: begins almost immediately; enzymatic breakdown of cells & tissue (autolysis) begins. Visible signs limited. **2. Bloated Stage:** metabolic activity of bacteria produces gases, causing the carcass to inflate & swell. Pressure forces fluids from natural orifices, producing strong odours. **3. Active Decay:** liquefaction and disintegration of tissues observed. Odours persist. **4. Advanced Decay:** decomposition rate decreases due to loss of mass. Eventually, dry remains are all that remain.



400+ VOLATILE COMPOUNDS

Decomposition is a complicated process, and varies depending on conditions. A wide range of chemical compounds are produced, many more than can be shown here, though not all of them will contribute to odour.

A Selection of Odour-Causing Chemicals in the Decay Process

3

Bloated

Active

Decay



