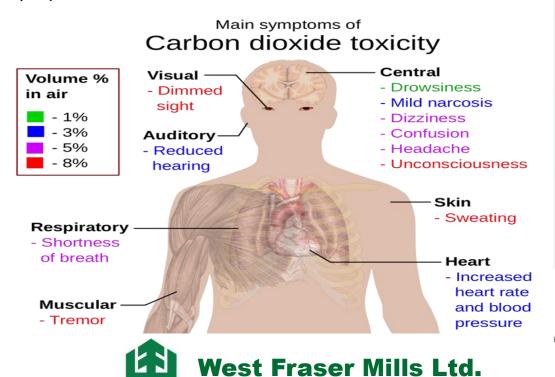
## Carbon Dioxide CO2

Characteristics: Carbon dioxide is a colorless, odorless gas. Wood chips have a tendency to degrade the surrounding air when they are stored in confined spaces. The natural processes of microbiological activity and chemical decomposition can quickly deplete the ambient oxygen, as well as increasing the carbon dioxide and generating carbon monoxide. Any one of these things could render the air unsafe but when two or more exist together they can become a lethal combination.

CO2 is also produced by the roasting of lime mud and lime rock (kilns) and the combustion of organic material (Recovery and steam plant or in any other area where combustion takes place). CO2 is 1 ½ times heavier than air.

**Effects:** Dizziness followed by a feeling of faintness. This condition exists only when oxygen has been largely displaced by Carbon Dioxide.

**Treatment:** Fresh air – Immediately report to First Aid **Protective measures:** Use air supply equipment in areas suspected of containing large concentrations of carbon dioxide. Use proper ventilation.



1,000ppm

5,000ppm (0.5%)

10,000ppm (1%)

15,000ppm (1.5%)

20,000ppm (2%)

30,000ppm (3%)

40,000-50,000ppm (4-5%)

50,000-100,000ppm (5-10%)

100,000-1,000,000ppm (10-100%)

