

## Occupational Benchmarks Defined

validated samples (less than 0.2% of the total number) not included in the current summary that are being investigated or validated to assure the integrity of the sampling result. In cases where a sample is ultimately determined not to have been collected in a manner consistent with accepted industrial hygiene practice, the associated sample result may be rejected and consequently not included in this data summary. To date, there have only been

- **OSHA Occupational Permissible Exposure Limits (PELs)** are the permissible concentrations in air of substances to which nearly all workers may be repeatedly exposed 8 hours a day, 40 hours a week, for 30 years without adverse effects (ref. OSHA 29 CFR:1910.1000)
- **NIOSH Recommended Exposure Limits (RELs)** provide time weighted average concentrations for certain chemical constituents for up to a 10 hour workday during a 40 hour work week (ref. NIOSH Pocket Guide to Chemical Hazards). Although they do not constitute a legal requirement, they are often more stringent than the OSHA corresponding permissible exposure limit for that chemical.
- **ACGIH Threshold Limit Values (TLVs®)** refer to airborne concentrations of chemical substances and represent conditions under which it is believed that nearly all workers may be repeatedly exposed, day after day, over a working lifetime, without adverse health effect (ref. ACGIH TLVs® and BEIs® for Chemicals Substances and Physical Agents). Although they do not constitute a legal requirement, ACGIH TLVs® are often more stringent than the OSHA corresponding permissible exposure limit for that chemical.

TREX-012023.0005