

Impact Of Unleaded Gasoline In Reducing Emissions In Saudi Arabia

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Summary

Saudi Arabia is dealing progressively with tighter restrictions on refined product qualities. Efforts are ongoing within the country concerning the phase-out of lead in motor gasoline and the reduction of sulfur in diesel as well. The removal of lead is the main characteristic of environmental friendly gasoline. The detrimental health effects of using leaded gasoline are many, and lead exposure can cause kidney failure, brain dysfunction, behavioral problems, and neurological impairment. Saudi Arabia is moving towards using unleaded gasoline, and efforts are being put forward by research organizations to produce lead-free gasoline in the Kingdom. A high severity fluid catalytic cracking process is being developed for converting vacuum gas oil into high-octane gasoline components. This process requires high temperature and pressure and low contact time as compared to the conventional FCC process.

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