



**REACTIONS OF EPOXIDIZED NATURAL RUBBER WITH  
PALM OIL-BASED ALKYDS AND MEDIUM-CHAIN-LENGTH  
POLYHYDROXYALKANOATES**

**TINDAK BALAS ANTARA GETAH EPOKSI DAN ALKID  
MINYAK KELAPA SAWIT DAN POLIHIDROKSIALKANOAT  
RANTAI SEDERHANA**

**LEE SIANG YIN**

**CHEMISTRY DEPARTMENT  
FACULTY OF SCIENCE  
UNIVERSITY OF MALAYA  
KUALA LUMPUR**

**OCTOBER 2009**



**REACTIONS OF EPOXIDIZED NATURAL RUBBER WITH  
PALM OIL-BASED ALKYDS AND MEDIUM-CHAIN-LENGTH  
POLYHYDROXYALKANOATES**

**TINDAK BALAS ANTARA GETAH EPOKSI DAN ALKID  
MINYAK KELAPA SAWIT DAN POLIHIDROKSIALKANOAT  
RANTAI SEDERHANA**

**LEE SIANG YIN**

**DISSERTATION SUBMITTED IN FULFILMENT  
OF THE REQUIREMENTS  
FOR THE DEGREE OF DOCTOR OF PHILOSOPHY**

**CHEMISTRY DEPARTMENT  
FACULTY OF SCIENCE  
UNIVERSITY OF MALAYA  
KUALA LUMPUR**

**OCTOBER 2009**