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CERTIFICATE

Stone wool fibres of the type RIF-41001¹ manufactured by Rockwool International A/S were tested in a Intra-tracheal Instillation Biopersistence Study in Rats

Sponsor: Rockwool International A/S

RCC Project Number: 722711
Sponsor Project Number: RI-1999002

Protocol Title: Biopersistence of MMVFs in Rats Following Intra-tracheal Instillation

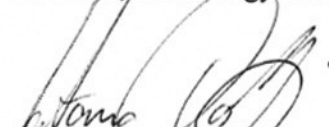
The animal experimental work was done in the period from May 1999 to December 1999 and was performed in compliance with the Principles of Good Laboratory Practice (GLP). The study design generally complied with the EU Protocol: "Biopersistence of Fibres: Intratracheal Instillation" [ECB/TM/27 rev. 7, 1998] and in agreement with the Intratracheal Instillation Biopersistence Test mentioned in the recent amendment to the German Hazardous Substance Ordinance (Section 7.1-1 des Anhangs V, Nr. 7 "Kuenstliche Mineralfasern," der Gefahrstoffverordnung) effective 1st July, 1998.

After investigation of the lung burden at scheduled time points (2-day, 14 day, 28-day and 90-day), the calculation of the half-life values (T_{1/2}) was performed by Dr. Bjarne K. Ersbøll in accordance with the EU-guidelines: ECB/TM/27 rev. 7.

The half-life of the WHO-Fibers (L>5µm, D<3µm, L/D>3:1) is < 40 days

The stonewool RIF-41001 manufactured by Rockwool International A/S fulfils the exoneration criteria specified in German Hazardous Substances Ordinance Annex V Nr. 7.1 of 1st of July 1998 (half-time < 65 days) and in the revision valid as of 1st of October 2000 (half-life < 40 days)

RCC Ltd, Toxicology Division



Dr. A. Dotti, Head of Department Inhalation Toxicology
28-JAN-2000

¹ Chemical Composition Analysis Certificate, Rockwool International A/S, Analytical Report RDF-00-5018