

LIST OF ABBREVIATIONS USED IN THIS VOLUME

- ACGIH:** American Conference of Governmental Industrial Hygienists
AES: alkaline earth silicate
AI: alveolar–interstitial (region)
APFE: European Glass Fibre Producers Association
AR: alkali-resistant
ASTM: American Society for Testing and Materials
ATF: activating transcription factor
B fibre: Bayer fibre
BEA: bronchitis, emphysema and asthma
CARE: control and reduce exposure
CEN: Comité européen de Normalisation (European Committee of Standardization)
Chrome: chromium oxides
CIIT: Chemical Industry Institute of Toxicology
CVF: colloidal and vacuum formed
D: diameter
ECA: Everest Consulting Associates
ECFIA: European Ceramic Fibre Industries Association
EDXA: energy dispersive X-ray diffraction analysis
E-glass: electrical glass (i.e. developed for electrical applications)
EIPPCB: European Integrated Pollution Prevention and Control Bureau
ERK: extracellular signal-regulated kinase
ERM: Environmental Resources Management
ET: extrathoracic
EU: European Union
EURIMA: European Insulation Manufacturers' Association
FARIMA: Fiberglass and Rockwool Insulation Manufacturers' Association of Australia
FEV₁: forced expiratory volume in 1 s
FVC: forced vital capacity
GM: geometric mean
GMD: geometric mean diameter

GML: geometric mean length
GSD: geometric standard deviation
HEPA: high-efficiency particulate air
HID: highest ineffective dose
HSP: Health and Safety Partnership Program
HT: high-alumina, low-silica wool
ICRP: International Committee on Radiological Protection
IgG: immunoglobulin G
ILO: International Labour Office (of the International Labour Organization)
ILSI: International Life Sciences Institute
INRS: Institut national de Recherche et Sécurité
INSERM: Institut national de la Santé et de la Recherche médicale
IPF: idiopathic pulmonary fibrosis
ISO: International Organization for Standardization
JM Fibre: Johns Manville fibre
JNK: Jun N-terminal kinase
k_{dis}: dissolution constant
L: length
LED: lowest effective dose
LR: local rate
MAPK: mitogen-activated protein kinases
Met: mesothelial
MMAD: mass median aerodynamic diameter
MMMF: man-made mineral fibre
MMVF: man-made vitreous fibre
NAIMA: North American Insulation Manufacturers' Association
NF: nuclear factor
NIOSH: National Institute for Occupational Safety and Health
NMRD: non-malignant respiratory disease
NOHSC: National Occupational Health and Safety Commission of Australia
NR: national rate
NRC: National Research Council (USA)
8-OH-dG: 8-hydroxydeoxyguanosine
OSHA: Occupational Safety and Health Administration (USA)
P & CAM: physical and chemical analytical method
PAH: polycyclic aromatic hydrocarbons
PCOM: phase-contrast optical microscopy
PLM: polarized light microscopy
PSP: Product Stewardship Program
R: retained
RCF: refractory ceramic fibre
RCFC: Refractory Ceramic Fiber Coalition (USA)

- RH:** Rheinstahl (slag wool)
RRF: respiratory response function
SD: standard deviation
SEM: scanning electron microscopy
SIR: standardized incidence ratio
SMR: standardized mortality ratio
TB: tracheobronchial
TEM: transmission electron microscopy
TG: transcription factor
TGF: tumour growth factor
TIMA: Thermal Insulation Manufacturers' Association (USA)
TNF: tumour necrosis factor
TPC: total pulmonary capacity
TRGS: Technische Regeln für Gefahrstoffe
TWA: time-weighted average
UICC: Union internationale contre le Cancer (International union against cancer)
VDI: Verein Deutscher Ingenieure
WHO fibre: see Glossary
WT_½: weighted lung retention half-time
ZI: Zimmermann (slag wool)