

Table 2: Biological Monitoring Guidance Values

17 The framework for the use of biological monitoring and the setting of Biological Monitoring Guidance Values (BMGVs) is detailed in paragraphs 114-116. For each substance with a BMGV a free information sheet briefly describing a suggested analytical method, appropriate sampling strategy, the availability of quality assurance schemes and interpretation of results is available. Information sheets can be obtained from HSE's Health and Safety Laboratory, Biomedical Sciences Group, Health & Safety Laboratory, Health Sciences (or Biological Monitoring), Buxton, Derbyshire, SK17 9JN (Website: www.hsl.gov.uk).

Substance	Biological Monitoring Guidance Value	Sampling time
Butan-2-one	70 µmol butan-2-one/L in urine	Post shift
2-Butoxyethanol	240 mmol butoxyacetic acid/mol creatinine in urine	Post shift
Carbon monoxide	30 ppm carbon monoxide in end-tidal breath	Post shift
Chromium VI	10 µmol chromium/mol creatinine in urine	Post shift
Cyclohexanone	2 mmol cyclohexanol/mol creatinine in urine	Post shift
Dichloromethane	30 ppm carbon monoxide in end-tidal breath	Post shift
N,N-Dimethylacetamide	100 mmol N-methylacetamide/mol creatinine in urine	Post shift
Glycerol trinitrate (Nitroglycerin)	15 µmol total nitroglycols/mol creatinine in urine	At the end of the period of exposure
Isocyanate	1 µmol urinary diamine/mol creatinine in urine	Post task
Lindane (γBHC(ISO))	35 nmol/L (10 µg/L) of lindane in whole blood (equivalent to 70 nmol/L of lindane in plasma)	Random
MbOCA (2,2' dichloro-4,4' methylene dianiline)	15 µmol total MbOCA/mol creatinine in urine	Post shift
Mercury	20 µmol mercury/mol creatinine in urine	Random
4-methylpentan-2-one	20 µmol 4-methylpentan-2-one/L in urine	Post shift
4,4'-Methylenedianimile (MDA)	50 µmol total MDA/mol creatinine in urine	Post shift for inhalation and pre-shift next day for dermal exposure
Polycyclic aromatic hydrocarbons (PAHs)	4 µmol 1-hydroxypyrene/mol creatinine in urine	Post shift
Xylene, o-, m-, p- or mixed isomers	650 mmol methyl hippuric acid/mol creatinine in urine	Post shift