

Focus on BGIA's work

Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung

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OMEGA hazardous substance software

Problem

Parallel to air and material sampling, a range of operating, exposure, sampling and measurement data are recorded in the measurement system for exposure assessment (BGMG). They are required for analysis of the samples for the purpose concerned and for providing an analysis report. The prevailing plant conditions must be recorded in a manner such that uniform assessment and interpretation of the measurement results is assured. All recorded data are input into the MEGA exposure database in order to make them available for anonymized evaluations. Comparability of the results is assured by the fact that the data are measured and recorded uniformly and systematically within the BGMG.

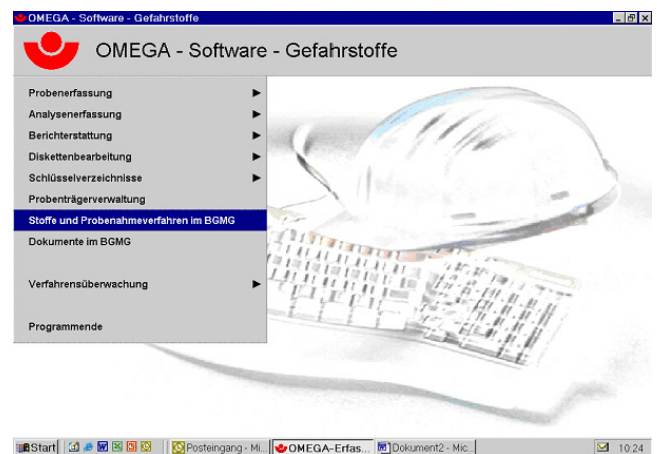
Activities

By means of the OMEGA hazardous substance software developed within the BGIA using Windows, Delphi and Firebird, the data are recorded by the measuring services of the accident insurance institutions, whose activities are focused within the BGMG. The software is also employed in the BGMG laboratories for the recording of measured values and generation of analysis reports. It is available for both networks and PCs.

Results and Application

The software comprises the following features:

- recording of operating, exposure, sampling and measured data, including plausibility checks;



Input form of the OMEGA hazardous substance software (in German)

- recording of further data in the course of measurement programmes (e.g. welding, cooling lubricants, indoor air);
- lists of substances, reports, and outline lists;
- data interchange by diskette or extranet (CNBG), conversion of the data to ASCII;
- retrieval in code lists, online help, BGMG documents;
- process monitoring, monthly and annual analyses, management of sample carriers;
- analysis reports, generation of a preformatted BGMG measurement report;
- archiving of the data;
- transfer of completed procedures to the MEGA exposure database.

The OMEGA hazardous substance software constitutes an essential element of quality assurance within the BGMG. Contributory elements are checks for plausibility and completeness and information on assessment in the form of indexes and text modules within the analysis reports. The user is supported by menu-guidance and comprehensive help features.

Each year, the software is used to process data on approximately 30,000 samples and partly more than 100,000 analyses. About 320 software installs were in use in 2007. A condition for use is attendance by the staff concerned at the G1 hazardous substance seminar on the measurement and assessment of hazardous substances (introductory seminar for authorized BGMG staff) and a two-day training course including initial installation in the BGIA.

Area of Application

Measurement services within the BGMG, laboratories within the BGMG including the BGIA

Additional Information

- BGIA-Arbeitsmappe Messung von Gefahrstoffen. Kennzahl 3610 ff. Ed.: BGIA – Institut für Arbeitsschutz, Sankt Augustin. Erich Schmidt, Berlin 1989 – loose-leaf ed.
www.bgia-arbeitsmappedigital.de/3610
- BGMG – The BG “Measurement System for Hazardous Substances“ of the German institutions for statutory accident insurance and prevention. 4th revised edition. Ed.: Hauptverband der gewerblichen Berufsgenossenschaften (HVBG), Sankt Augustin 2006

Expert Assistance:

BGIA, Division 1: Information technology – Risk management

Literature Requests:

BGIA, Central division

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