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GBZ

National Occupational Hygiene Standard of the People's
Republic of China

GBZ 2.1-2007

工作场所有害因素职业接触限值

第 1 部分：化学有害因素

Occupational exposure limits for hazardous agents in the workplace

Part 1: Chemical hazardous agents

Issued on Apr 27, 2007

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Issued by the Ministry of Health of the People's Republic of China

Foreword

This Standard is mandatory standard.

This revision will divide GBZ 2-2002 *Occupational Exposure Limit for Hazardous Agents in the Workplace* into GBZ 2.1 *Occupational exposure limits for hazardous agents in the workplace Part 1: Chemical hazardous agents* and GBZ 2.2 *Occupational exposure limits for hazardous agents in the workplace Part 2: Physical agents*.

Comparing with GBZ 2-2002, main changes of this Standard as follows:

- a) Clear and definite the conception and definition for occupational hygiene standard and add following contents:
 - Excursion limits and application;
 - Definition of total dust, respirable dust and aerodynamics diameter;
 - Reference, classification, identification and application of carcinogenicity of chemical substance;
 - Identification and application of sensitization substance;
 - Application of percutaneous identification.
- b) Adjusted to some standard value and revised and enlarged a few domestic standard value:
 - Revised the exposure limit of acetonitrile and methyl acetate;
 - Revised and enlarged the exposure limit of paraquat, chlorpyrifos, chloroacetic acid, barium and that soluble compounds fluorite mixed dust and respirable dust
- c) Deleted the PC-STEL value of 47 kinds of dust in GBZ 2-2002 and PC-STEL value of 164 kinds of chemical substance with *.
- d) Added 59 carcinogenicity identifications, 9 sensitization identifications and 10 percutaneous identifications.

The Annex A of this Standard is Normative.

This Standard is proposed by National Occupational Hygiene Standard Committee.

This Standard is approved by the Ministry of Health of the People's Republic of China.

Main draft units of this Standard: National Institute of Occupational Health and Poison Control, College of Public Health, Fudan University, Tongji Medical University, Huazhong University of Science and Technology and College of Public Health, Peking University, etc.

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By this Standard instead of standard of all previous versions as

– GBZ 2-2002.

Occupational exposure limits for hazardous agents in the workplace

Part 1: Chemical hazardous agents

1 Scope

This Standard specifies the occupational exposure limits for chemical hazardous agents in the workplace.

This Standard is applicable to various workplaces which industrial enterprise hygiene design and producing and existing chemical hazards agents. Applies to hygiene condition of workplace, working condition, degree that worker contact with chemical agents, leakage of process units, as well as monitoring, evaluating and management of safeguard procedures effect and occupational hygiene supervision and inspection, etc..

This Standard is not applicable to non-occupational exposure.

2 Normative References

The articles contained in the following documents have become this Part when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GBZ 1 Hygienic standards for the Design of Industrial Enterprises

GBZ 159 Specifications of air sampling for hazardous substances monitoring in the workplace

GBZ 160 Methods for determination in the air of workplace

3 Terms and Definitions

Following terms and definitions are applicable to this Standard.

3.1 Occupational exposure limits, OELs

Occupational exposure limit for hazardous agents is defined as permissible exposure level not inducing acute or chronic hazardous effects on labor health after long-term repeated exposure during occupational behavior. Occupational exposure limit of chemical agents can be divided into three kinds: permissible concentration-time weighted average, maximum allowable concentration, and permissible concentration-short term exposure limit.

3.1.1 Permissible concentration-time weighted average, PC-TWA

It is defined as permissible exposure level in 8h working day prescribed with time as weight number.

3.1.2 Maximum allowable concentration, MAC

It is defined as concentration of poisonous chemicals which shall not exceed at any time in a working day in work site.

3.1.3 Permissible concentration-short term exposure limit, PC-STEL

It is defined as permissible exposure level-15min time weighted average which shall not exceed in

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