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**OCCUPATIONAL HEALTH STANDARD
OF THE PEOPLE'S REPUBLIC OF CHINA
中华人民共和国国家职业卫生标准**

GBZ 230-2010

**Classification for Hazards of Occupational
Exposure to Toxicant
职业性接触毒物危害程度分级**

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Foreword

This standard is formulated in accordance with the requirements of "Law of the People's Republic of China on Prevention and Control of Occupational Diseases".

This standard is the first revised edition for GB 5044-85 "Classification for hazards of occupational exposure to toxicant".

There are main differences of this standard from GB 5044-85 in the following aspects:

—The indexes - acute toxicity and carcinogenicity are reserved. the former acute toxicity grading standard is revised according to "Globally Harmonized System of Classification and Labeling of Chemicals, GHS" issued by the United Nation; and the former carcinogenicity grading standard is revised according to the carcinogenicity classification issued by the international cancer research institution - International Agency for Research on Cancer, IARC.

—The former indexes, acute poisoning pathogeny condition, chronic poisoning pathogeny condition and chronic poisoning consequence are integrated to an index - actual hazard consequence and prognosis, and the definition and grading standards are specified definite.

—The five indexes - diffusivity, retention, irritation and corrosivity, sensitization and reproductive toxicity, are added.

—Index weighing and the principle "classifying according to toxicity hazard index" are added.

—The industrial policies issued by China are listed as the reference for direct classification.

—The non-inherent characteristic index (maximum allowable concentration) is canceled.

Annex A of this standard is normative.

This standard is proposed by the Committee of Occupational Health Standards of Ministry of Health.

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

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Classification for Hazards of Occupational Exposure to Toxicant

1 Scope

This standard specifies the basis (standard) for classification for hazards of occupational exposure to toxicant.

This standard is applicable to the classification of toxicity hazard class of occupational exposure.

This standard is also used one of the basis for hazard rating for workplace occupational diseases and hazard evaluation for construction project occupational diseases.

2 Normative Reference

The following documents are essential for the application of this standard. For dated references, the dated edition applies this document. For undated reference, the latest edition (including all amendments) of the normative document referred to applies.

GB/T 21604-2008 Test method of acute dermal irritation / corrosion for chemicals

GB/T 21609-2008 Test method of acute dermal irritation/corrosion for chemicals

3 Terms and Definitions

The following terms and definitions apply.

3.1 Occupational exposure to toxicant

Substances that are exposed to workers in occupational activities, exist in the way of raw material, finished product, semiproduct, intermediate product, reaction byproduct and impurity, get into the human body through respiratory tract, skin or mouth, and do harm to workers' health.

3.2 Hazard

Health damage and poor health effect possible to workers, caused by occupational exposure to toxicant.

3.3 Toxicant hazardous index, THI

Quantity value to reflect the health hazard (to workers) degree of occupational exposure to toxicant.

4 Classification Principles

4.1 The classification for hazards of occupational exposure toxicant is based on the nine indexes including acute toxicity of toxicant, diffusivity, retention, carcinogenicity, reproductive toxicity, sensitization, irritation and corrosivity and actual hazard consequence and prognosis.

4.2 The classification principle is to determine the toxicant hazardous index by comprehensive analysis and calculation on the base of four key classes (9 items) of classification indexes like acute toxicity, influence factor of toxic action, toxic effect and actual hazard consequence. Each index is rated with five grades and given corresponding point value (slight hazard: 0 point; gentle hazard: 1 point; moderate hazard: 2 points; high

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