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**NATIONAL OCCUPATIONAL HEALTH STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GBZ/T 284-2016

**Guideline for protection against occupational hazards of
n-hexane**

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(English Translation)

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Foreword

This standard is formulated in accordance with the Law of the People's Republic this standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is mainly drafted by. Shenzhen Baoan District Center for Disease Control and Prevention, Guangdong Provincial Occupational Disease Prevention and Control Institute, Shenzhen Occupational Disease Prevention the hospital, Shenzhen Fuyong Health Supervision Office.

1 Scope

This standard specifies the basic requirements for occupational hazard protection of n-hexane, hazard identification and risk assessment of occupational exposure, risk control,

and Emergency handling and rescue and other content.

This standard applies to employers with occupational exposure to n-hexane, as well as occupational health supervision and management departments and occupational health technologies.

Service organization.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 11651 personal protective equipment selection specification GB 14866 Personal eye protection technical requirements GB/T 16180 Labor ability appraisal employee injury and occupational disease disability level GB/T 18664 Selection, use and maintenance of respiratory protection products GB 50073 clean factory design specification GBZ 1 industrial enterprise design hygiene standard GBZ 71 General rules for the diagnosis of occupational acute chemical poisoning GBZ 84 diagnostic criteria for occupational chronic hexane poisoning GBZ 158 workplace occupational hazard warning sign GBZ 159 Sampling specification for monitoring of hazardous substances in the workplace air GBZ/T 160.38 Determination of aerobic compounds in workplace air toxic substances GBZ 188 Occupational Health Monitoring Technical Specifications GBZ/T 194 Code of Practice for Preventing Occupational Poisoning Health Engineering in Workplaces GBZ/T 195 organic solvent workplace personal occupational disease protective equipment use specification GBZ/T 205 Code of occupational hazard protection for confined space operations GBZ/T 224 Occupational Hygiene Terminology GBZ/T 225 Employer's Guide to Prevention and Control of Occupational Diseases

3 Terms and definitions

The following terms and definitions defined by GBZ/T 224 apply to this document.

Specify the protection factor assigned protective factor; APF One or a class of suitable respiratory protection products that are expected to be air-contaminated on the premise that they are suitable for the user to wear and use correctly.

A multiple of the reduction in dye concentration.

4.1 Basic points of occupational hazard protection of n-hexane

Hexane is a saturated aliphatic hydrocarbon poison. Due to its high volatility and high fat solubility, it can accumulate in the body and invade the nervous system and cause occupational acute or chronic poisoning. Chronic n-hexane occupational poisoning is characterized by insidious and slow, often mass-generating. Using decontamination Before cleaning agents or organic binders, their ingredients or volatile components should be clearly defined. Workers should not be arranged in a poorly ventilated environment such as air conditioners.

Engaged in contact with hexane or continuous overtime work.

4.2 Basic duties of the employer

4.2.1

Occupational health management institutions (organizations) should be set up, with specialized (part-time) occupational health management personnel and occupational health training.

In accordance with the "Occupational Disease Prevention and Control Law" requirements to establish an occupational disease prevention and control responsibility system and declare occupational disease hazard projects according to law.

4.2.2

Occupational disease prevention and control should be carried out to protect the health of workers. Specific methods can refer to GBZ/T 225.

In controlling and eliminating occupational hazards, the following work should be done.

a) At the stage of feasibility study of the construction project, a pre-evaluation report on occupational hazards should be submitted to the safety supervision department. Involving occupational disease hazards Heavy construction projects, in addition to providing pre-evaluation reports on occupational hazards, design of occupational disease prevention facilities and occupational hazards in addition to the evaluation of control effects, it is also necessary to meet the on-site acceptance conditions of occupational disease prevention facilities, and at least once every three years.

Harm the status quo evaluation.

b) The occupational health technical service institution that has obtained the corresponding qualifications shall be entrusted to work in accordance with the requirements of GBZ 159 and GBZ/T 160.38.

The hexane in the air is tested and evaluated at least once a year. For workers who do not meet the national occupational health standards and health requirements the workplace should immediately take appropriate measures to ensure that it meets the requirements of

occupational health environment and conditions;

c) Bulletin board, warning signs and warning instructions should be set up in the workplace to make the entry personnel aware of the existence of the workplace.

The harmful consequences and protective measures of the hexane occupation. The setting of the warning sign shall comply with the provisions of GBZ 158;

d) Formulate a maintenance system for hexane occupational hazard protection facilities, and maintain and repair them regularly by special (part-time) personnel to ensure that they are the alkane occupational hazard protection facility is in normal working condition.

e) Occupational health training and management systems for the distribution and use of personal protective equipment should be established and improved. Before the employee is employed, Occupational health-related knowledge training during the post to ensure that workers have the necessary occupational health knowledge and can use n-hexane correctly Occupational hazard protection equipment and personal protective equipment. According to the requirements of GBZ/T 195, GB/T 11651, GB/T 18664 Activists are equipped with effective personal protective equipment and urge workers to use and maintain properly;

f) An occupational health surveillance system should be established and improved. Entrusting qualified medical and health institutions according to the provisions of GBZ 188 Occupational health check;

g) The hexane occupational hazard health file and the labor health surveillance file should be established and improved.

4.3 Funding guarantee

It is necessary to ensure the necessary funding for the management of hexane occupational hazards and to pay for work-related injury insurance premiums for hexane contacts.

4.4 Emergency rescue

An emergency rescue plan for hexane occupational hazards should be established and improved and drilled.

4.5 Acute accidents

If an acute hexane occupational hazard occurs, it shall be carried out in accordance with the provisions of GBZ 71.