

ICS 13.1
CCS G09



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

GB 36894-2018

**Risk criteria for hazardous chemicals production unit and
storage installations**

危险化学品生产装置和储存设施风险基准

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Foreword

The full technical content of this standard is mandatory. This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed and managed by the Emergency Management Department of the People's Republic of China. This standard was drafted. China Academy of Safety Production Science, China Chemical Safety Association, Nanjing University of Technology. The main drafters of this standard. Wei Lijun, Wang Rujun, Du Yingquan, Yang Guoliang, Jiang Juncheng, Yu Lijian, Lu Nianming, Shi Lichen, Yang Chunsheng, Zhang Shengzhu, Wu Hao, Wang Yuanyuan, Ma Daqing, Hu Min, Sun Mingliang. Hazardous chemicals production plant and storage facility risk benchmark

1 Scope

GB 36894-2018 is the Chinese national standard on risk criteria for hazardous chemicals production unit and storage installations, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 19 November 2018 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2019. Classification: ICS 13.1, CCS G09. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the acceptable risk reference values for personal and social risks in hazardous chemical production facilities and storage facilities. This standard applies to the risk determination of hazardous chemicals production equipment and storage facilities site selection and surrounding land use planning.

2 Terms and definitions

The following terms and definitions apply to this document.

2.1 Personal risk individualrisk Assume that the person is in a certain place for a long time and has no protection. The frequency of death due to a dangerous chemical accident is the unit. Per year.

2.2 Social risk societalrisk The frequency with which a group (including employees and the public in the surrounding enterprise) is exposed to a certain degree of injury in a hazardous area is usually expressed as greater than or equal to The cumulative frequency of accidents (F) for N deaths is represented by a graph of the relationship between cumulative frequency and death toll (FN curve).

2.3 Protection target protectedobject A facility or site that may be subject to casualties due to accidents involving hazardous chemical production facilities and storage facilities.

3.1 Classification of protection objectives

3.1.1 Protection objectives are classified into high-sensitive protection targets, important protection targets, and general protection according to the main nature of the actual use of facilities or sites. aims.

3.1.2 Highly sensitive protection targets include the following facilities or locations.

a) Cultural facilities. Including. comprehensive cultural activity center, cultural center, youth palace, children's activity center, old age activity center and other facilities.

b) Educational facilities. Including. institutions of higher learning, secondary specialized schools, sports training bases, secondary schools, primary schools, kindergartens, amateur schools, private The training institution and its ancillary facilities, including the student life in an independent section of the school.

c) Medical and health facilities. Including. medical, health care, health, epidemic prevention, rehabilitation and first aid places; excluding. residential and community level Health service facilities under.

d) Social welfare facilities. Including. welfare facilities, nursing homes, orphanages and other facilities that provide welfare and charitable services to the society and their affiliates facility.

e) Other places where the self-protection ability is relatively low in the accident scene.

3.1.3 Important protection objectives include the following facilities or locations.

a) Public book exhibition facilities. Including. public libraries, museums, archives, science and technology museums, memorial halls, art galleries, exhibition halls, exhibitions Center and other facilities.

b) Cultural relics protection unit.