



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

**GB 30000.2-2013**

Replacing GB 20576-2006

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**Rules for classification and labelling of chemicals - Part 2:  
Explosives**

化学品分类和标签规范 第2部分：爆炸物

**Issued on: October 10, 2013**

**Implemented on: November 1, 2014**

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**Issued by: General Administration of Quality Supervision, Inspection and  
Quarantine of the People's Republic of China;  
Standardization Administration of China**

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## Foreword

Chapter 4 and Chapter 6 of this part are mandatory. The rest are recommended. The expected structure of "Rules for classification and labelling of chemicals" and the national standards to be replaced are as follows: - Part

## 1 Scope

GB 30000.2-2013 is the Chinese national standard on rules for classification and labelling of chemicals - part 2: explosives. 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 10 October 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1

November 2014. Classification: ICS , CCS A80. 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 Part of GB 30000 specifies the terms and definitions, classification criteria, decision logic and guidance, and labels of explosives. This Part is applicable to the classification and labelling of explosives according to the United Nations "Globally Harmonized System of Classification and Labelling of Chemicals" (Hereafter referred to as GHS).

## 2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated editions apply to this document. For undated references, the latest editions (including all corrections) of the referenced documents apply to this document.

GB 13690 General rules for classification and hazard communication of chemicals United Nations "Recommendations on the transport of dangerous goods - Manual of tests and criteria" (Fifth revised edition) United Nations "Recommendations on the transport of dangerous goods - Model regulations" (Seventeenth revised edition) United Nations "Globally Harmonized System of Classification and Labelling of Chemicals" (Fourth revised edition)

## 3 Terms and definitions

Those defined in GB 13690 AND the following terms and definitions apply to this document.

**3.1 explosive substances (or mixture)** An explosive substance (or mixture) is a solid or liquid substance (or mixture of substances) which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic substances are included even when they do not evolve gases.

**3.2 pyrotechnic substances (or mixture)** A pyrotechnic substance (or mixture) is a substance or mixture of substances designed to produce an effect by heat, light, sound, gas or smoke or a combination of these as the result of non-detonative self-sustaining exothermic chemical reactions.

**3.3 explosive articles** An explosive article is an article containing one or more explosive substances or mixtures.

**3.4 pyrotechnic articles** A pyrotechnic article is an article containing one or more pyrotechnic substances.

3.5 explosives Explosives including the following three kinds. - Explosive substances and mixtures; - Explosive articles, except devices containing explosive substances or mixtures in such quantity or of such a character that their inadvertent or accidental ignition or initiation shall not cause any effect external to the device either by projection, fire, smoke, heat or loud noise; - Substances, mixtures and articles not mentioned above which are manufactured with the view to producing a practical, explosive or pyrotechnic effect, such as pyrotechnic articles.

## 4 Classification criteria

4.1 Explosives are assigned to one of the following six divisions depending on the type of hazard they present.

- a) Division 1.1. Substances, mixtures and articles which have a mass explosion hazard (a mass explosion is one which affects almost the entire quantity present virtually instantaneously);
- b) Division 1.2. Substances, mixtures and articles which have a projection hazard but not a mass explosion hazard;

## 12 Self-heating substances and mixtures (replacing GB 20584-2006); - Part

13. Substances and mixtures which, in contact with water, emit flammable gases (replacing GB 20587-2006); - Part

## 20 Serious eye damage/eye irritation (replacing GB 20594 a 2006); - Part

21. Respiratory or skin sensitization (replacing GB 20595-2006); - Part

22. Germ cell mutagenicity (replacing GB 20596-2006); - Part

23. Carcinogenicity (replacing GB 20597-2006); - Part

24. Reproductive toxicity (replacing GB 20598-2006); - Part

25. Specific target organ toxicity. Single exposure (replacing GB 20599-2006); - Part

26. Specific target organ toxicity. Repeated exposure (replacing GB 20601-2006); - Part

27. Aspiration hazard; - Part

28. Hazardous to the aquatic environment (replacing GB 20602-2006); - Part

29. Hazardous to the ozone layer; - Part

30. Work safety warning signs. This Part is Part 2 of GB 30000. This Part was drafted in

accordance with the rules given in GB/T 1.1-2009. This part shall replace GB 20576-2006 "Safety rules for classification, precautionary labelling and precautionary statements of chemicals - Explosives". This part is consistent with the relevant technical content of the United Nations "Globally Harmonized System of Classification and Labelling of Chemicals, GHS" (Fourth revised edition). Compared with GB 20585-2006, the major technical changes are as follows: - MODIFY the standard name. Chinese name is changed to "Rules for classification and labelling of chemicals. Part

2.Explosives". English name is changed to "Rules for classification and labelling of chemicals. Part

2.Explosives"; - MODIFY the content of Chapter 1 "Scope". The "warning label" is changed to "label". DELETE "precautionary statements"; - MODIFY the introductory phrase in Chapter 2 "Normative references". And ADD "United Nation, Globally Harmonized System of Classification and Labelling of Chemicals, GHS (Fourth revised edition)" as a reference document; - ADD introductory phrase in Chapter 3 "Terms and definitions". - The Figure 1 "decision logic diagram" and "guidance" in Chapter 5 are as informative Appendix A; - DELETE the original Chapter

7. Table 3 in original Chapter 7 is modified as normative Appendix B according to the United Nations "Globally Harmonized System of Classification and Labelling of Chemicals, GHS" (Fourth revised edition); - MODIFY and INTEGRATE the original Chapters 6, 7 and 8 as Chapter 6 according to the United Nations "Globally Harmonized System of Classification and Labelling of Chemicals, GHS" (Fourth revised edition). Original Table 2 is modified as normative Appendix C; - DELETE the original Chapter

8. The relevant contents "hazard statements" and "precautionary statements" are as informative Appendix D; - ADD informative Appendix E "Label examples". This Part was proposed by and shall be centralized by National Standardization Technical Committee on Danger Chemicals Management (SAC / TC 251). Drafting organizations of this Part. Beihai Entry-exit Inspection and Quarantine, Shanghai Institute of Chemical Industry, and Shanghai Entry-exit Inspection and Quarantine. The main drafters of this Part. Xiao Huanxin, Liu Gang, Xiao Qiuping, Wu Junyi, Shang Jie, and Jiang Wei. The previous version replaced by this Part is. - GB 20576-2006. Rules for classification and labelling of chemicals - Part