



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

**GB 30000.5-2013**

Replacing GB 20579-2006

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**Rules for classification and labelling of chemicals - Part 5:  
Oxidizing gases**

化学品分类和标签规范 第5部分：氧化性气体

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### Foreword

Chapter 4 and Chapter 6 of this part are mandatory. The rest are recommended. The expected structure and the national standards to be replaced are as follows: Part 1. Rules for classification and labelling of chemicals. Part 1. General rules (replacing GB 13690-2009); Part 2. Rules for classification and labelling of chemicals. Part 2. Explosives (replacing GB 20576-2006); Part 3. Rules for classification and labelling of chemicals. Part 3. Flammable gases (replacing GB 20577-2006); Part 4. Rules for classification and labelling of chemicals. Part 4. Aerosols (replacing GB 20578-2006); Part 5. Rules for classification and labelling of chemicals. Part 5. Oxidizing gases (replacing GB 20579-2006); Part 6. Rules for classification and labelling of chemicals. Part 6. Gases under pressure (replacing GB 20580-2006); Part 7. Rules for classification and labelling of chemicals. Part 7. Flammable liquids (replacing GB 20581-2006); Part 8. Rules for classification and labelling of chemicals. Part 8. Flammable solids (replacing GB 20582-2006). Part 9. Rules for classification and labelling of chemicals. Part 9. Self-reactive substances and mixtures (replacing GB 20583-2006); Part 10. Rules for classification and labelling of chemicals. Part 10. Pyrophoric liquids (replacing GB 20585-2006); Part 11. Rules for classification and labelling of chemicals. Part 11. Pyrophoric solids (replacing GB 20586-2006); Part 12. Rules for classification and labelling of chemicals. Part 12. Self-heating substances and mixtures (replacing GB 20584-2006); Part 13. Rules for classification and labelling of chemicals. Part 13. Substances and mixtures which, in contact with water, emit flammable gases (replacing GB 20587-2006); Part 14. Rules for classification and labelling of chemicals. Part 14. Oxidizing liquids (replacing GB 20589-2006); Part 15. Rules for classification and labelling of chemicals. Part 15. Oxidizing solids (replacing GB 20590-2006); Part 16. Rules for classification and labelling of chemicals. Part 16. Organic peroxides (replacing GB 20591-2006); Part 17. Rules for classification and labelling of chemicals. Part 17. Corrosive to metals (replacing GB 20588-2006). Part 18. Rules for classification and labelling of chemicals. Part 18. Acute

toxicity (replacing GB 20592-2006); Part 19. Rules for classification and labelling of chemicals. Part 19. Skin corrosion/irritation (replacing GB 20593-2006); Part 20. Rules for classification and labelling of chemicals. Part 20. Serious eye damage/eye irritation (replacing GB 20594 a 2006); Part 21. Rules for classification and labelling of chemicals. Part 21. Respiratory or skin sensitization (replacing GB 20595-2006); Part 22. Rules for classification and labelling of chemicals. Part 22. Germ cell mutagenicity (replacing GB 20596-2006); Part 23. Rules for classification and labelling of chemicals. Part 23. Carcinogenicity (replacing GB 20597-2006); Part 24. Rules for classification and labelling of chemicals. Part 24. Reproductive toxicity (replacing GB 20598-2006); Part 25. Rules for classification and labelling of chemicals. Part 25. Specific target organ toxicity. Single exposure (replacing GB 20599-2006); Part 26. Rules for classification and labelling of chemicals. Part 26. Specific target organ toxicity. Repeated exposure (replacing GB 20601-2006); Part 27. Rules for classification and labelling of chemicals. Part 27. Aspiration hazard; Part 28. Rules for classification and labelling of chemicals. Part 28. Hazardous to the aquatic environment (replacing GB 20602-2006); Part 29. Rules for classification and labelling of chemicals. Part 29. Hazardous to the ozone layer; Part 30. Rules for classification and labelling of chemicals. Part 29. Work safety warning signs. This part is part 5 of GB 30000. This part was drafted in accordance with the rules given in GB/T 1.1-2009. This part shall replace GB 20579-2006. 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 20579-2006, the major technical changes are as follows: - MODIFY the standard name. Chinese name is changed to "Rules for classification and labelling of chemicals. Part 5. Oxidizing gases". English name is changed to "Rules for classification and labelling of chemicals. Part 5. Oxidizing gases"; - 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. China Chemical Technology Development Center, China National Chemical Information Center,

Shanghai Institute of Chemical Industry, Zhejiang Chemical Industry Research Institute Co., Ltd., and Huafeng Group Ltd. The main drafters of this part. Zhang Junxi, Liang Jin, Feng Zuo, Fang Lu, Xiao Qiuping, Cao Mengran, Wen Tao, Xue Jinqin, Chen Lihong, Li Tie, Yang Ting, and An Ran. The previous version replaced by this part is. - GB 20579-2006. Rules for classification and labelling of chemicals - Part 5. Oxidizing gases

## 1 Scope

GB 30000.5-2013 is the Chinese national standard on rules for classification and labelling of chemicals - part 5: oxidizing gases. 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 oxidizing gases. This part is applicable to the classification and labelling of oxidizing gases 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 6944-2012 Classification and code of dangerous goods

GB 13690 General rules for classification and hazard communication of chemicals

GB/T 27862 Chemical hazard classification test gases and gas mixtures burning potential and oxidizing ability United Nations "Globally Harmonized System of Classification and Labelling of Chemicals" (Fourth revised edition) United Nations "Recommendations on the transport of dangerous goods - Model regulations" (Seventeenth revised edition)

## 3 Terms and definitions

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