

Translated English of Chinese Standard: GB30000.13-2013

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ICS 13.300

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GB

National Standard of the People's Republic of China

GB 30000.13-2013

Replacing GB 20587-2006

Rules for classification and labelling of chemicals - Part 13: Substances and mixtures, which in contact with water, emit flammable gases

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Issued on: October 10, 2013

Implemented on: November 1, 2014

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;**

Standardization Administration Committee.

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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 13 of GB 30000.

This part was drafted in accordance with the rules given in GB/T 1.1-2009 "Rules for classification and labelling of chemicals Substances which in contact with water, emit flammable gases."

This part shall replace GB 20587-2006.

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 20587-2006, the major technical changes are as follows:

- MODIFY the standard name. Chinese name is changed to "Rules for classification and labelling of chemicals. Part 13: Substances and mixtures which, in contact with water, emit flammable gases". English name is changed to "Rules for classification and labelling of chemicals. Part 13: Substances and mixtures which, in contact with water, emit flammable 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, Hangzhou Young Instruments Co., Ltd., Zhejiang Chemical Industry Research Institute Co., Ltd., China National Chemical Information Center, and Huafeng Group Ltd.

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The previous version replaced by this part is:
- GB 20587-2006.

Rules for classification and labelling of chemicals -

Part 13: substances and mixtures which, in contact with water, emit flammable gases

1 Scope

This part of GB 30000 specifies the terms and definitions, classification criteria, decision logic and guidance, and labels of substances and mixtures which, in contact with water, emit flammable gases.

This part is applicable to the classification and labelling of substances and mixtures which, in contact with water, emit flammable 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

United Nations "Globally Harmonized System of Classification and Labelling of Chemicals" (Fourth revised edition)

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)

Figure E.1 Label examples of Categories 1 and 2 of substances and mixtures which, in contact with water, emit flammable gases

Label examples of Category 3 of substances and mixtures which, in contact with water, emit flammable gases are shown in Figure E.2.

Code Product name		Transport pictogram
Company Name	Warning	
Street name and number	Keep out of reach of children	United Nations number
Country, province, city, zip code	Read the label before use	Formal shipping name
Phone number	In contact with water releases flammable gases which may ignite spontaneously.	
Emergency phone	Handle under inert gas.	
Instructions for use:	Protect from moisture.	
Load mass:	Wear protective gloves/eye protection/face protection.	
Lot:	Manufacturer/supplier or the competent authority to specify type of equipment.	
Gross weight:	In case of fire: Use ... to extinguish ... Manufacturer/supplier or the competent authority to specify appropriate media.	
Load date:	- if water increases risks	
Validity:	Store in a dry place.	
	Store in a closed container.	
	Dispose of contents/container to...	
	...in accordance with local/regional/national/ international regulations (to be specified).	

Figure E.2 Label examples of Category 3 of substances and mixtures which, in contact with water, emit flammable gases

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