

ICS 13.300

CCS A 80



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

GB 27833-2011

**Safety code for packaging of hazardous chemicals of organic
peroxides**

(English Translation)

Issued on: December 30, 2011

Implemented on: August 1, 2012

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

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and Definitions

4.1 Classification of organic peroxides

5 Requirements

5.1 General requirements

5.2 Special Requirements

5.3 IBC packaging requirements

5.4 in portable tanks packaging requirements

6 Marking and labeling

6.1 mark

6.2 Label

2 explosive label

Foreword

This standard Chapter 4, Chapter 5 and Chapter 6 are mandatory, the rest are recommended.

This standard was drafted in accordance with rules GB/T 1.1-2009 given.

This standard and the United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations" (sixteenth revised edition) second, fourth, fifth and sixth chapters for

Consistent with the technical content of 5.2 organic peroxides packaging requirements.

This standard is proposed and managed by the Dangerous Chemicals Management Standardization Technical Committee (SAC/TC251).

This standard was drafted. Hunan Entry-Exit Inspection and Quarantine Technology Center, Tianjin Entry-Exit Inspection and Quarantine Bureau, Jiangnan University.

1 Scope

This standard specifies the organic peroxide packaging dangerous chemicals classification requirements, tags and labels.

This standard applies to packaging of dangerous chemicals organic peroxide test.

2 Normative references

The following documents for the application of this document is essential. For dated references, only applies to the version dated paper

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

GB 19432 Bulk Dangerous Goods Safety code for inspection

GB 19433 Air Safety code for inspection of dangerous goods packaging

GB 19521.12 organic peroxides Dangerous Goods Safety code for inspection of hazardous properties

GB 21178 self-reactive substances and organic peroxides categorizer

UN "Recommendations on the Transport of Dangerous Goods Model Regulations of" (sixteenth revised edition)

The United Nations' Globally Harmonized System of Classification and Labeling (GHS) "(third revised edition)

3 Terms and Definitions

The United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations" (hereinafter referred to as "Model Regulations") and the following definition of terms and definitions

Meaning applies to this document.

3.1

Organic peroxides organicperoxides

An organic material containing two divalent -OO- structure, can be regarded as derivatives of hydrogen peroxide, i.e., wherein one or two hydrogen atoms

It is substituted with an organic radical. Organic peroxides are thermally unstable substances, self-accelerating exothermic decomposition may occur. In addition, these substances also

It may have the following properties of one or more of.

- possible explosive decomposition;
- rapid combustion;
- collision or friction sensitive;

--- react dangerously with other substances;

--- damage your eyes.

3.2

SADT self-accelerating decomposition temperature (SADT)

Packaged material self-accelerating decomposition of the lowest ambient temperature may occur.

Category 4

4.1 Classification of organic peroxides

Organic peroxides according to their degree of danger divided into A ~ G type seven types, see GB 19521.12. Organic peroxide packet

Mounted only applies to B ~ F type wherein an organic peroxide.

a) A type organic peroxides, organic peroxide formulations, such as to detonate or deflagrate rapidly within a transport packaging container, particularly

According to GB 21178 determination, determined to A. It should be prohibited into the container of the present standard transportation regulations.

b) B-type organic peroxides, organic peroxide formulation having explosive properties, as neither transport in the packaging container detonating

Nor deflagrates rapidly, but may undergo a thermal explosion in that packaging containers, it should be labeled "EXPLOSIVE" subsidiary risk label. This organic

Number of peroxide in a container up to 25kg, but in order to exclude rapid deflagration or detonation in a packaging container is required

The highest number of the lower restricted number of persons except for specific determination based on GB 21178, it is determined that B.

c) C-type organic peroxides, organic peroxide formulation having explosive properties, such as transport containers (up to

Within 50kg) can not detonate or deflagrate rapidly or undergo a thermal explosion, not "EXPLOSIVE" subsidiary risk label transport, according to the specific

According to GB 21178 determination, determined to C.

d) D-type organic peroxides, organic peroxide formulation, if in laboratory testing.

1) partially detonation, deflagration not quickly, does not show any dramatic effect when heated under confinement;

2) does not detonate, a slow deflagration, do not show any dramatic effect when heated

under confinement;

3) does not detonate or deflagrate showing a medium effect when heated in a closed condition;

Acceptable weight of not more than 50kg installed in a packaging container transport, particularly a determination based on GB 21178, it is determined that D.

e) E-type organic peroxides, organic peroxide formulation, as in laboratory testing, neither did not detonate explosive also did not

Burning, displayed only a weak or no effect when heated in a closed condition, does not exceed the acceptable fitted 400kg/450L packet.

Container transport means, particularly based on a determination GB 21178, it is determined that E.

f) F type organic peroxides, organic peroxide formulation, in laboratory testing, the detonation of both not empty state

Never deflagration, show only weak or no effect when heated in a closed condition, and little or no explosive, may be considered

IBCs or tanks for the transport may be considered for IBC or transportation tanks, particularly based on a determination GB 21178, sentence

As F.

g) G organic peroxides, organic peroxide formulation, in laboratory testing, the detonation of both not empty state

Nor deflagrates, showed no effects and no explosive power shall be exempt from classified 5.2 when heated under confinement conditions

The formulation is thermally stable (self accelerating decomposition of the packaging container 50kg temperature of 60 °C or higher), so that the liquid formulation

Desensitized type A diluent. If the formulation is not thermally stable, with a diluent or desensitized type A other than diluents, particularly

Judged according to GB 21178, judged G.

Packing method for classifying an organic peroxide 4.2

Organic peroxide OP1 ~ OP8 packaging into eight classes based on the maximum load capacity of each container and package, specifically in Table 1.

The following packagings. meet GB 19432 GB 19433 and packaging requirements, while meeting the criteria of this Chapter 5 packaging requirements. "regulation

Chapter templates "5.2 organic peroxides name and packaging specifications example