

ICS 13.300

CCS A 80



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

GB 27834-2011

**Safety code for packaging of hazardous chemicals of
self-reactive substances**

(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 self-reactive substances classification

4.2 self-reactive substances classification packaging method

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

100 OP8 3228

2 B-type azodicarbonamide formulations, to control the temperature of a, b < 100 OP5 3232

3 C Type azodicarbonamide formulation c < 100 OP6 3224

4 C azodicarbonamide formulation type, temperature control d < 100 OP6 3234

5 D-type azodicarbonamide formulation e < 100 OP7 3226

6 D azodicarbonamide formulation type, temperature control f < 100 OP7 3236

15 benzenesulfonylhydrazide 100 OP7 3226

18 zinc chloro-4-diethylamino-benzene diazonium 100 OP7 3226

21 D-type 2-diazo-1-naphthol sulfonate mixture i < 100 OP7 3226

100 OP8 3228

23 chloride-2,5-ethoxy-4-morpholino benzene diazonium 67-100 OP7 35 40 3236

24 chloride-2,5-ethoxy-4-morpholino benzene diazonium 66 OP7 40 45 3236

27 zinc sulfonated benzene-2,5-ethoxy-4-acyloxy benzene diazonium 67 OP7 40 45 3236

79 OP7 40 45 3236

100 OP7 40 45 3236

72 OP6 3224

33 N, N'- dinitroso pentamethylene tetramine g 82 OP6 3224
35 dipropylamino benzene diazonium chloride -4- 100 OP7 3226
62 OP7 35 40 3236
38 N- formyl-2-nitro-1,3-thiazin-perhydro 100 OP7 45 50 3236
100 OP7 45 50 3236
100 OP7 40 45 3236
96 OP7 45 50 3236
48 sample from the reaction solids, the temperature control h OP2 3234

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 4.1 self-reactive substances 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 classification of dangerous chemicals self-reactive substances packaging requirements, tags and labels.

This standard applies to self-reactive substances hazardous chemicals packaging inspection.

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 21178 self-reactive substances and organic peroxides categorizer

UN "Recommendations on 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

Self-reactive substances self-reactivesubstances

Even without oxygen (air) is also prone to thermally unstable substances strongly exothermic decomposition, in the "Model Regulations" hazardous category 4.1

Self-reactive substances. The following materials should not be considered 4.1 self-reactive substances.

--- according to the standard of Class 1 they are explosives;

5.1 --- The procedure of classification, which are oxidizing substances, but mixtures of oxidizing materials, such as combustible organic substances contained up

To 5.0% or more, it should go through the classification procedure defined GB 21178;

According to standard 5.2 --- they are organic peroxides;

--- thermal decomposition of less than 300kJ/kg;

--- which SADT 50kg package is larger than 75 °C.

3.2

SADT self-acceleratingdecompositiontemperature (SADT)

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

Category 4

4.1 self-reactive substances classification

The degree of self-reactive substances according to their risk of A to G into seven types, see GB 21178. Since the packaging material is only suitable reaction

Wherein BF for self-reactive substances.

a) A self-reactive substances, any substance, such as to detonate or deflagrate rapidly transport package. Specific carried out in accordance with GB 21178

Determination, it is determined that A, shall be prohibited mounted in the container transported under the provisions of this Standard.

b) B self-reactive substances, any substance having explosive properties, such as rapid deflagration neither detonates nor transport package but the

The package may undergo a thermal explosion, it should be labeled "EXPLOSIVE" subsidiary risk label. Such materials in containers number

The amount of up to 25kg, but in order to preclude detonation or rapid deflagration in the package and should limit the maximum amount in addition to the lower of

outer. GB 21178 determines the specific basis, determined to B.

c) C self-reactive substances, any substance having explosive properties, such as (up to 50kg) in a fast transport can not detonate or package

Thermally speed deflagration or explosion, not "EXPLOSIVE" secondary risk label transport. GB 21178 determines the specific basis,

Determined to C.

d) D self-reactive substances, any substance, such as in laboratory testing.

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

2) does not detonate, a slow deflagration, does not exhibit any dramatic effect when heated under confinement; or

3) does not detonate or deflagrate exhibit moderate effect when heated in a closed condition;

Acceptable mounted net does not exceed 50kg packages transported. GB 21178 determines the specific basis, determined as D.

When e) E self-reactive substances, any substance, such as in laboratory testing, neither detonates deflagration never heated under confinement

Exhibit low or no effect, not exceeding an acceptable means 400kg/450L packages