

Australian/New Zealand Standard™

**The storage and handling of Class 4  
dangerous goods**



## **AS/NZS 5026:2012**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CH-009, Safe Handling of Chemicals. It was approved on behalf of the Council of Standards Australia on 13 January 2012 and on behalf of the Council of Standards New Zealand on 24 January 2012.

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The following are represented on Committee CH-009:

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Agsafe  
Australasian Fire Authorities Council  
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Consumers Federation of Australia  
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Australian/New Zealand Standard<sup>™</sup>

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dangerous goods**

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## PREFACE

This Standard was prepared by the Standards Australia/Standards New Zealand Committee CH-009, Safe Handling of Chemicals. Preparation of the Standard was commenced following a request from the chemicals industry that a series of Standards be prepared on the storage and handling of dangerous goods.

*This Standard incorporates Amendment No. 1 (May 2013). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

This Standard deals with dangerous goods of Class 4, as classified in the UN *Recommendations on the Transport of Dangerous Goods—Model Regulations*, the ADR Code and the HSNO Act.

The purpose of this Standard is to promote safety wherever Class 4 dangerous goods are stored and handled, by providing requirements and recommendations that are based on industry best practices.

Australian and New Zealand references are separated by a slash (/).

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of appendices to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is for information and guidance only.

Statements expressed in mandatory terms in notes to tables are requirements of this Standard. Statements appearing as notes within the main text provide information only.

The series of publications covering the storage, handling and transport of dangerous goods presently comprises the following:

AS

- |       |                                                                              |
|-------|------------------------------------------------------------------------------|
| 1678  | Emergency procedure guides—transport (series)                                |
| 1894  | The storage and handling of non-flammable cryogenic and refrigerated liquids |
| 1940  | The storage and handling of flammable and combustible liquids                |
| 2187  | Explosives—Storage, transport and use (series)                               |
| 2507  | The storage and handling of agricultural and veterinary chemicals            |
| 2508  | Safe storage and handling information cards (series)                         |
| 2714  | The storage and handling of organic peroxides                                |
| 2809  | Food tank vehicles for dangerous goods (series)                              |
| 3780  | The storage and handling of corrosive substances                             |
| 3846  | The handling and transport of dangerous cargoes in port areas                |
| 5051  | The storage and handling of liquefied natural gas                            |
| 5089  | Oxygen and acetylene gas reticulation systems                                |
| 4326  | The storage and handling of oxidizing agents                                 |
| 4332  | The storage and handling of gases in cylinders                               |
| 5034  | Installation and use of inert gases for beverage dispensing                  |
| HB 76 | Dangerous goods—Initial emergency response guide                             |

## AS/NZS

- 1596 The storage and handling of LP Gas
- 2022 Anhydrous ammonia—Storage and handling
- 2927 The storage and handling of liquefied chlorine gas

## AS/NZS

- 3833 The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers
- 4081 The storage and handling of liquid and liquefied polyfunctional isocyanates
- 4452 The storage and handling of toxic substances
- 4681 The storage and handling of Class 9 (miscellaneous) dangerous goods and articles
- 60079.10.1 Explosive atmosphere—Part 10.1: Classification of areas—Explosive gas atmospheres

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard**  
**The storage and handling of Class 4 dangerous goods**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard sets out requirements and recommendations for the safe storage and handling of flammable solids, substances liable to spontaneous combustion, and substances that in contact with water emit flammable gases, i.e. dangerous goods that—

- (a) in Australia, are classified as Division 4.1, 4.2 or 4.3 in the Australian Dangerous Goods Code (ADG Code); and
- (b) in New Zealand, meet the 4.1, 4.2 or 4.3 classification criteria of the *Hazardous Substances and New Organisms Act, 1996*, referred to as ‘the HSNO Act’.

The Standard also applies to other dangerous goods that are assigned Division 4.1, 4.2 or 4.3 subsidiary risks by the ADG Code, except where more stringent requirements apply under another relevant Standard or regulation.

## NOTES:

- 1 In Australia, this Standard is not intended to apply to consumer products and commercial cleaning products that are flammable liquid soaked solids or flammable liquid containing solids.
- 2 Dangerous goods are classified as such and listed in the *UN Recommendations on the Transport of Dangerous Goods—Model Regulations*. They are also listed in the ADG Code and HSNO Act.
- 3 Information on the hazards presented by Class 4 dangerous goods is provided in Appendix A.

**1.2 APPLICATION****1.2.1 Where this Standard applies**

This Standard applies in locations that are generally industrial, commercial or rural in nature including research institutions. Its requirements apply in conjunction with, but do not take precedence over, any regulations that apply in any area.

## NOTES:

- 1 An installation may come under the regulatory control of several authorities having differing areas of responsibility, and an agreement from one does not necessarily constitute an agreement from others.
- 2 The Building Code of Australia (BCA)/New Zealand Building Code (NZBC) applies to all matters relating to building works.

**1.2.2 Where this Standard does not apply**

This Standard does not apply to the following:

- (a) The transport of Class 4 dangerous goods, which is covered by other rules and Codes, e.g. the ADG Code/NZS 5433 or the IMDG Code.
- (b) The handling or transport of Class 4 dangerous goods in port areas which, in Australia, is covered by AS 3846.
- (c) The retail storage of Class 4 dangerous goods in retail packages, which in Australia is addressed in AS/NZS 3833.
- (d) The manufacture or processing of Class 4 dangerous goods.