

Australian/New Zealand Standard™

**The storage and handling of Class 9  
(miscellaneous) dangerous goods and  
articles**

## **AS/NZS 4681:2000**

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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 15 September 2000 and on behalf of the Council of Standards New Zealand on 24 November 2000. It was published on 6 December 2000.

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The following interests are represented on Committee CH-009:

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Australasian Fire Authorities Council  
Australian Chemical Specialties Manufacturers Association  
Australian Institute of Petroleum  
Australian Paint Manufacturers Federation  
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Additional interests participating in the preparation of this Standard:

Manufacturers, distributors and industrial users of Class 9 dangerous goods  
Consultants to the chemicals industry  
Consultants to the agricultural industry

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(Incorporating Amendment No. 1)

Australian/New Zealand Standard™

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(miscellaneous) dangerous goods and  
articles**

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## PREFACE

This Standard was prepared by the Joint Australian/New Zealand Standards Committee CH-009, *Safe Handling of Chemicals*. Preparation of this Standard was commenced following a request from the chemicals industry that a series of generic Standards be prepared in the storage and handling of each Class of dangerous goods.

*This Standard incorporates Amendment No. 1 (March 2001). The changes arising from the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure, or part thereof affected.*

The purpose of this Standard is to promote the safety of persons and property wherever dangerous goods and articles of Class 9 (as specified in the UN *Recommendations for the Transport of Dangerous Goods — Model Regulations*) are stored and handled, by providing requirements and recommendations that are based on industry best practices.

In New Zealand, this Standard covers dangerous goods and articles of Class 9, which may differ from Class 9 as defined by HSNO legislation.

The series of Standards covering the storage and handling of dangerous goods presently comprises the following:

### AS

- 1894 The storage and handling of non-flammable cryogenic and refrigerated liquids
- 1940 The storage and handling of flammable and combustible liquids
- 2022 Anhydrous ammonia—Storage and handling
- 2507 The storage and handling of agricultural and veterinary chemicals
- 2714 The storage and handling of hazardous chemical materials—Class 5.2 substances (organic peroxides)
- 2927 The storage and handling of liquefied chlorine gas
- 3780 The storage and handling of corrosive substances
- 3846 The handling and transport of dangerous cargoes in port areas
- 3961 Liquefied natural gas—Storage and handling
- 4081 The storage, handling and transport of liquid and liquefied polyfunctional isocyanates
- 4326 The storage and handling of oxidizing agents
- 4332 The storage and handling of gases in cylinders

### AS/NZS

- 1596 Storage and handling of LP Gas
- 3833 The storage and handling of mixed classes of dangerous goods in packages and intermediate bulk containers
- 4452 The storage and handling of toxic substances

### NZS

- 8409 Code of practice for the management of agrichemicals

Attention has been paid to aligning the requirements given in this Standard with those of regulatory authorities, emergency services, environmental authorities and the various publications of the National Occupational Health and Safety Commission.

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

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard****The storage and handling of Class 9 (miscellaneous) dangerous goods and articles**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard sets out requirements and recommendations for the safe storage and handling of dangerous goods and articles of Class 9 (i.e. miscellaneous dangerous goods and articles), as classified by the UN *Recommendations on the Transport of Dangerous Goods—Model Regulations*, and listed in the *Australian Dangerous Goods Code (ADG Code)/NZS 5433*. It covers these goods in packages, intermediate bulk containers (IBCs) and bulk.

NOTE: A current list of Class 9 dangerous goods, taken from the 11th revised edition of the UN *Recommendations on the Transport of Dangerous Goods—Model Regulations*, is given in Appendix A of this Standard.

In New Zealand, this Standard covers dangerous goods and articles of Class 9, which may differ from Class 9 as defined by HSNO legislation.

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

This Standard applies in all situations except for the following:

- (a) The transport of Class 9 dangerous goods and articles, which is covered by other regulations, rules and codes, e.g. the ADG Code/NZS 5433.
- (b) The storage and handling of bitumen (UN 3256 and UN 3257), which is covered by AS 1940.
- (c) The storage and handling of dangerous goods and articles of Class 9 which are regulated only for air transport, e.g. Aviation regulated liquids, N.O.S. (UN 3334), Aviation regulated solids, N.O.S. (UN 3335).
- (d) Genetically modified micro-organisms (UN 3245).
- (e) The handling of Class 9 dangerous goods and articles in port areas, which, in Australia, is addressed in AS 3846.
- (f) The storage and handling of Class 9 dangerous goods on farms, where such goods are not intended for resale, and which are addressed in AS 2507/NZS 8409.

Where the Class 9 dangerous goods are also combustible liquids (i.e. C1 or C2 as defined in Clause 1.4.10), and the quantity stored is greater than that allowed as minor storage, AS 1940 shall apply.

**1.2.2 Relationship with regulations**

The requirements of this Standard apply in conjunction with, but do not take precedence over, any government regulations that apply in any area.

## NOTES:

- 1 An installation may come under the regulatory control of several authorities having different areas of responsibility, and an approval from one authority does not necessarily constitute an approval from others.