

Australian Standard™

**The storage and handling of gases in  
cylinders**



This Australian Standard was prepared by Committee CH-009, Safe Handling of Chemicals. It was approved on behalf of the Council of Standards Australia on 10 March 2004. This Standard was published on 30 April 2004.

The following are represented on Committee CH-009:

- Australasian Fire Authorities Council
- Australasian Railways Association
- Australian Consumer and Specialty Products Association
- Australian Institute of Petroleum
- Australian Paint Manufacturers Federation
- Avcare
- Consumers' Federation of Australia
- Department for Administrative and Information Services, S.A.
- Department of Emergency Services, Qld.
- Department of Environment and Conservation, N.S.W.
- Department of Minerals and Petroleum Resources, W.A.
- Institution of Engineers Australia
- New Zealand Chemical Industry Council
- New Zealand Fire Service
- Plastics and Chemicals Industry Association, Australia
- Tranz Rail, New Zealand
- Victorian WorkCover Authority
- WorkCover New South Wales

Additional Interests:

- Australian Industrial Gas Manufacturers Association
- Australian Liquefied Petroleum Gas Association
- Metropolitan Fire and Emergency Services Board, Melbourne
- Consultants to the dangerous goods industry

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## The storage and handling of gases in cylinders

Originated as AS 4332—1995.  
Second edition 2004.  
Reissued incorporating Amendment No. 1 (August 2005).

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Published by Standards Australia, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 5872 X

## PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CH-009, Safe Handling of Chemicals, to supersede AS 4332—1995. This revision was commenced following advice from the Australian Industrial Gas Manufacturers' Association that several technical and safety matters needed further consideration and revision.

*This Standard incorporates Amendment No. 1 (August 2005). 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.*

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard, rather than an Australian/New Zealand Standard.

This Standard deals with Class 2 substances, as classified in the ADG Code.

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

### AS

- |      |   |
|------|---|
| 1894 | The storage and handling of non-flammable cryogenic and refrigerated liquids                                |
| 1940 | The storage and handling of flammable and combustible liquids   |
| 2507 | The storage and handling of agricultural and veterinary chemicals   |
| 2714 | The storage and handling of hazardous chemicals—Class 5.2 substances (organic peroxides)                    |
| 2931 | Selection and use of emergency procedure guides for the transport of dangerous goods                        |
| 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  |
| 4289 | Oxygen and acetylene reticulation systems   |
| 4326 | The storage and handling of oxidizing agents  |
| 4839 | The safe use of portable and mobile oxy-fuel gas systems for welding, cutting, heating and allied processes |

### 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  |
| 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                          |

Attention is also drawn to the AS 2030 series, *The verification, filling, inspection, testing and maintenance of cylinders for storage and transport of compressed gases*, in particular Part 1: *Cylinders for compressed gases other than acetylene*.

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 and footnotes to tables are deemed to be requirements of this Standard.

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