

Australian Standard[®]

The storage and handling of organic peroxides

STANDARDS
Australia



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 July 2008. This Standard was published on 21 October 2008.

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- ACCORD Australasia
 - Agsafe
 - Australasian Fire Authorities Council
 - Australian Institute of Petroleum
 - Consumers' Federation of Australia
 - Department of Consumer and Employment Protection, WA
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee.

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The storage and handling of organic peroxides

Original as AS 2714—1984.
Previous edition 1993.
Third edition 2008.

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

ISBN 0 7337 8877 7

PREFACE

This Standard was prepared by the Australian members of Standards Australia/Standards New Zealand Committee CH-009, Safe Handling of Chemicals, to supersede AS 2714—1993, *The storage and handling of hazardous chemical materials—Class 5.2 substances (organic peroxides)*. It deals with the storage and handling of organic peroxides of Division 5.2, Types B, C, D, E and F, as defined in the ADG Code.

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 has been revised to align with the other Standards in the series on the storage and handling of dangerous goods, which 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
- 2507 The storage and handling of agricultural and veterinary chemicals
- 3780 The storage and handling of corrosive substances
- 3846 The handling and transport of dangerous cargoes in port areas
- 3961 The storage and handling of liquefied natural gas
- 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 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
- 4452 The storage and handling of toxic substances
- 4681 The storage and handling of Class 9 (miscellaneous) dangerous goods and articles

The purpose of this Standard is to promote the safety of persons, property and the environment where organic peroxides are stored and handled, by providing requirements and recommendations based on industry good practice.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the way appendices are intended to apply. A ‘normative’ appendix is an integral part of the Standard, whereas an ‘informative’ appendix provides guidance only.

Statements expressed in mandatory terms (‘shall’) in notes that accompany tables are requirements of this Standard. Notes that appear in the main text of Standard provide information only.

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STANDARDS AUSTRALIA

Australian Standard
The storage and handling of organic peroxides

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard provides requirements and recommendations for the storage, handling, dispensing and disposal of dangerous goods of Division 5.2 (i.e. organic peroxides of Types B, C, D, E and F), as classified in the UN *Recommendations on the Transport of Dangerous Goods—Model Regulations* and listed in the ADG Code.

This Standard provides requirements for organic peroxides of Types B, C, D, E, and F. Organic peroxides of Types A and G are outside the scope of this Standard. Type A organic peroxides are not accepted by the ADG Code for transport in the packaging in which they are tested, because of their hazardous nature: specific requirements for the storage of such substances should be sought from the supplier and the regulatory authority. Type G organic peroxides are exempted from Division 5.2 in the ADG Code due to their relatively low level of hazard.

NOTES:

- 1 Advice supplementary to that provided in this Standard should be sought from the supplier of the goods.
- 2 A discussion of the general properties and hazards presented by organic peroxides is provided in Appendix A.

This Standard provides minimum safety requirements for storage facilities, operating procedures, emergency planning and fire protection. It provides technical guidance that may assist in the storage and handling of organic peroxides in accordance with the risk management principles of NOHSC: 411 and legislation that draws upon that document.

1.2 APPLICATION**1.2.1 Where this Standard applies**

This Standard applies to the storage and handling of packaged organic peroxides of Division 5.2 as described above and listed in the ADG Code. The requirements of this Standard apply in conjunction with, but do not take precedence over, any statutory regulations that apply in any area.

For the bulk storage of organic peroxides, advice needs to be sought from the supplier and the relevant authority.

Where the organic peroxide being kept has one or more Subsidiary Risks (subrisks), reference should be made to the Australian Standards relevant to the Classes or Divisions of those risks and the more stringent requirements shall apply.

NOTES:

- 1 An installation may come under the jurisdiction of several authorities having different areas of responsibility, and approval from one does not necessarily constitute approval from others.
- 2 The *Building Code of Australia* (BCA) should be consulted regarding any building works.