AS 3780-1994 Australian Standard[®] The storage and handling of corrosive substances

This Australian Standard was prepared by Committee CH/9, Safe Handling of Chemicals. It was approved on behalf of the Council of Standards Australia on 26 May and published on 18 July 1994.

The following interests are represented on Committee CH/9:

Australian Chamber of Commerce and Industry

Australian Conservation Foundation

Australian Defence Industries

Australian Fire Authorities Council

Australian Government Analytical Laboratories

Australian Institute of Petroleum

Australian Paint Manufacturers Federation

Chemical Confederation of Australia

Country Fire Authority, Vic.

Department of Defence

Department of Minerals and Energy, Western Australia

Department of Occupational Health, Safety and Welfare, W.A.

Department of Primary Industries and Energy

Department of Transport and Communications

Environment Protection Authority (New South Wales)

Insurance Council of Australia

Melbourne Water

National Association of Testing Authorities, Australia

National Health and Medical Research Council

National Occupational Health and Safety Commission

Occupational Health and Safety Authority, Vic.

Printing and Allied Trades Employers Federation of Australia

Queensland Department of Transport

Railways of Australia Committee

Tasmania Development and Resources

University of Queensland

Work Health Authority, N.T.

WorkCover Authority, N.S.W.

Subcommittees of Committee CH/9

Additional interests participating in preparation of Standard:

- Commonwealth Institute of Health
- Consultants to the chemical industry

Manufacturers and distributors of corrosive substances

Operators of chemical storage terminals

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 92234..

AS 3780—1994

Australian Standard[®]

The storage and handling of corrosive substances

First published as AS 3780.8—1990. Revised and redesignated AS 3780—1994.

PUBLISHED BY STANDARDS AUSTRALIA (STANDARDS ASSOCIATION OF AUSTRALIA) 1 THE CRESCENT, HOMEBUSH, NSW 2140

PREFACE

This Standard was prepared by the Standards Australia Committee on Safe Handling of Chemicals to supersede AS 3780.8—1990, *The storage and handling of hazardous chemical materials*, Part 8: *Class 8 substances*—*Corrosive substances*. It deals with Class 8 substances, as classified in the ADG Code, and augments the information contained in those storage and handling cards of AS 2508, *Safe storage and handling information cards for hazardous materials*, that deal with Class 8 substances.

Further, attention is drawn to those cards of AS 1678, *Emergency procedure guides* —*Transport* that relate to Class 8 substances, such cards having the initial subdesignation digit '8'.

This Standard is one of a series of Standards planned, published or being developed, for the storage and handling of dangerous goods. This series presently comprises, in addition to AS 2508 and AS 1678 cited above, the following Standards:

AS

- 1596 LP gas—Storage and handling
- 1894 Code of practice for the safe handling of cryogenic fluids
- 1940 The storage and handling of flammable and combustible liquids
- 2022 Anhydrous ammonia—Storage and handling (known as the SAA Anhydrous Ammonia Code)
- 2507 The storage and handling of pesticides
- 2714 The storage and handling of hazardous chemical materials—Class 5.2 substances (organic peroxides)
- 2927 The storage and handling of liquefied chlorine gas
- 2931 Selection and use of emergency procedure guides for the transport of dangerous goods
- 3961 Liquefied natural gas—Storage and handling
- 4081 The storage, handling and transport of liquid and liquefied polyfunctional isocyanates

The objective of this Standard is to provide users of corrosive substances with such requirements and recommendations for the storage and handling of those substances as are appropriate to the interests of safety of persons and property. In this edition of the Standard, attention has been paid to the better alignment of requirements with the current needs of regulatory authorities, emergency services and environmental authorities, and greater cognizance has been taken of various publications of Worksafe Australia.

The opportunity to reorganize and simplify the structure and content of the Standard has also been taken. Further, because it has been invalidated by the 5th edition of the *Australian code for the transport of dangerous goods by road and rail*, and because more changes to the allocation of Subsidiary Risks to corrosive substances are anticipated in the future, the informative appendix that listed corrosive substances having Subsidiary Risks has been deleted from this edition; an informative appendix providing guidelines on the preparation of emergency plans has been newly–included.

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 deemed to be requirements of this Standard.

CONTENTS

Page

SECTION 1 SCOPE AND GENERAL	
1.1	SCOPE
1.2	APPLICATION
1.3	REFERENCED DOCUMENTS
1.4	DEFINITIONS
1.5	PACKAGING
1.6	MARKING
1.7	SECURITY OF STORAGE AREAS
SECTION 2 MINOR STORAGE	
2.1	SCOPE OF SECTION
2.2	CRITERIA FOR CLASSIFICATION AS MINOR STORAGE
2.3	REQUIREMENTS APPLICABLE TO MINOR STORAGE
SECTION 3 TRANSIT STORAGE	
3.1	SCOPE OF SECTION
3.2	DELINEATION OF TRANSIT STORAGE AREAS
3.3	REQUIREMENTS FOR TRANSIT STORAGE
SECTION 4 STORAGE AND HANDLING OF PACKAGES	
4.1	SCOPE OF SECTION
4.2	TYPES OF PACKAGE STORES
4.3	GENERAL REQUIREMENTS FOR PACKAGE STORES
4.4	SEPARATION AND SEGREGATION
4.5	REQUIREMENTS FOR PACKAGE FILLING OPERATIONS
SECTION 5 STORAGE AND HANDLING IN BULK	
5.1	SCOPE OF SECTION
5.2	GENERAL
5.3	CONTAINER TYPES
5.4	DESIGN AND CONSTRUCTION REQUIREMENTS APPLICABLE TO ALL BULK CONTAINERS
5.5	ADDITIONAL REQUIREMENTS FOR PORTABLE BULK
	CONTAINERS
5.6	ADDITIONAL REQUIREMENTS FOR FIXED TANKS
5.7	BUNDS AND COMPOUNDS
5.8	LOCATION OF BULK CONTAINERS
5.9	FILLING OF BULK CONTAINERS
SECTION 6 OPERATIONAL AND PERSONNEL SAFETY	
6.1	SCOPE OF SECTION
6.2	GENERAL PRECAUTIONS
6.3	HOUSEKEEPING
6.4	EFFLUENT CONTROL
6.5	CONSTRUCTION AND MAINTENANCE WORK
6.6	PERSONNEL TRAINING
6.7	PERSONAL PROTECTIVE EQUIPMENT
6.8	FIRST AID



This is a free preview. Purchase the entire publication at the link below:

Product Page

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation