Australian Standard® 2931—1990

SELECTION AND USE OF EMERGENCY PROCEDURE GUIDES FOR THE TRANSPORT OF DANGEROUS GOODS





STANDARDS AUSTRALIA

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 25 September 1989 and published on 18 June 1990.

The following interests are represented on Committee CH/9:

Australian Assembly of Fire Authorities

Australian Chamber of Commerce

Australian Institute of Petroleum

Australian Road Transport Federation

Board of Works

Chemical Confederation of Australia

Confederation of Australian Industry

Country Fire Authority, Vic.

Department of Administrative Services

Department of Environment and Planning, N.S.W.

Department of Labour, Vic.

Department of Local Government, Qld.

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

Department of Primary Industries and Energy

Department of Transport and Communications

Insurance Council of Australia

National Association of Testing Authorities, Australia

National Health and Medical Research Council

National Occupational Health and Safety Commission

Printing and Allied Trades Employers Federation of Australia

Railways of Australia Committee

State Pollution Control Commission, N.S.W.

University of Queensland

Work Health Authority, N.T.

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 subscribed members receive, and which gives details of new publications, new editions and appropriate and of withdraws.

and amendments, and of withdrawn Standards.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.

STANDARDS AUSTRALIA

Amendment No 1

to

STANDAGUS AGAINE 2 3 JAN1992 SOLEY 1150 CUMPE

AS 2931—1990

Selection and use of emergency procedure guides for the transport of dangerous goods

REVISED TEXT

The 1990 edition of AS 2931 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This amendment applies to the Preface, Clause 2.4, Section 3, Section 4 and Appendix A.

Published on

Australian Standard®

Selection and use of emergency procedure guides for the transport of dangerous goods

First published as AS 2931—1987. Second edition 1990.

PUBLISHED BY STANDARDS AUSTRALIA (STANDARDS ASSOCIATION OF AUSTRALIA) STANDARDS HOUSE 80 ARTHUR ST, NORTH SYDNEY NSW ISBN 0 7262 5994 2

PREFACE

This Standard was prepared by the Standards Australia Committee on Safe Handling of Chemicals to supersede the 1987 edition. It is a necessary adjunct to the series of Standards known as emergency procedure guides (EPGs) devised for the transport of dangerous goods in Australia, and identified by the designation AS 1678.

The Standard is to enable prospective users of EPGs to understand the function of EPGs in the transport system and to select and use the correct EPG for each type of dangerous goods cargo; its use will thereby facilitate systematic management and control of emergency situations during transportation.

This Standard is an integral component of the national drive for increased safety in the handling of chemicals, exemplified by the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SEE AMENDMENT > 1

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the Head Office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

Page 2 Preface At the end of the Preface, add a new paragraph as follows:

'This Standard and the Amendment No 1 to it, have been prepared in conformity with the P15 (1987) edition of the above—mentioned Code. A new edition of this Standard will be prepared following the publication of any new edition of that Code.'

CONTENTS

	Page
SECTION 1. SCOPE AND GENERAL	
1.1 SCOPE	4
1.2 APPLICATION	4
1.3 REFERENCED DOCUMENTS	4
1.4 DEFINITIONS	4
	•
SECTION 2. INSTRUCTIONS FOR USE	
2.1 SCOPE OF SECTION	7
2.2 BEFORE STARTING THE JOURNEY	7
2.3 TYPES OF EMERGENCY PROCEDURES GUIDES	7
2.4 SELECTION OF THE EMERGENCY PROCEDURE GUIDE (EPG)	7
A A TION TO THE AND THE	7
2.5 HOW TO USE AN EPG	,
GROUP TEXT EPG IDENTIFICATION CHART	
CLASS 2 SUBSTANCES—GASES	9
CLASS 3 SUBSTANCES—FLAMMABLE & COMBUSTIBLE LIQUIDS	9
CLASS 4 SUBSTANCES—FLAMMABLE SOLIDS; SPONTANEOUSLY	
COMBUSTIBLE; DANGEROUS WHEN WET	10
CLASS 5 SUBSTANCES—OXIDIZING SUBSTANCES, ORGANIC	
PEROXIDES	10
CLASS 6 SUBSTANCES—POISONOUS SUBSTANCES	11
CLASS 8 SUBSTANCES—CORROSIVES	12
CLASS 9 SUBSTANCES—MISCELLANEOUS DANGEROUS GOODS	12
SECTION 3. ALPHABETICAL LIST OF SUBSTANCES	13
bellow 3. All IMBELIAND BIOL OF SOBELIANCES	13
SECTION 4. LIST OF SUBSTANCES IN ORDER OF UN NUMBER	53
APPENDICES	
A ILLUSTRATIONS OF SPECIFIC EMERGENCY PROCEDURE	
GUIDES	92
B ILLUSTRATIONS OF GROUP TEXT EMERGENCY PROCEDURE	
GUIDES	104
C RATIONALE BEHIND GROUP TEXT EPG DESIGNATIONS	167
RIRI IOGRADUV	168

STANDARDS AUSTRALIA

Australian Standard

Selection and use of emergency procedure guides for the transport of dangerous goods

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE. This Standard provides guidance and requirements on the selection, completion and use of Emergency Procedure Guides (EPGs).

This Standard will-

- (a) help in the correct selection of an EPG;
- (b) define terms used in an EPG;
- (c) serve as a training aid and a reference source for EPGs. NOTE: To assist in the selection of the corresponding Safe Storage and Handling Information Card (SI Card) of the AS 2508 series, an additional column has been added in this edition to Sections 3 and 4, identifying the appropriate SI Card.
- 1.2 APPLICATION. This Standard is intended for use by persons transporting dangerous goods, as defined below, in quantities equal to or greater than those specified minimum levels nominated in the ADG Code, requiring the carriage of EPGs in the vehicle.

The Standard is to be used in conjunction with AS 1216 and AS 1678, which are complementary, and with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code; see the second last referenced document in Clause 1.3). This standard does not apply to UN Class 1 (explosives) nor UN Class 7 (radioactives).

1.3 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

AS

- 1216 Classification, hazard identification and information systems for dangerous goods
- 1216.1 Part 1: Classification and class labels for dangerous goods
- 1216.2 Part 2: HAZCHEM Emergency Action Code
- 1216.3 Part 3: NFPA hazard identification system
- 1216.4 Part 4: UN substance identification numbers
- 1678 Emergency procedure guide—Transport
- 1715 Selection, use and maintenance of respiratory protective devices
- 2106 Methods for the determination of the flashpoint of flammable liquids (closed cup)
- 2508 Safe storage and handling information cards for hazardous materials.

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)* prepared by the standing national Advisory Committee on the Transport of Dangerous Goods and authorized by the Australian Transport Advisory Council; published by the Australian Government Publishing Service.

- IP36 Standard method of test for flash and fire points by Cleveland open cup; published by the Institute of Petroleum (U.K.)
- 1.4 **DEFINITIONS.** For the purpose of this Standard, the definitions below apply.
- 1.4.1 Breathing apparatus—a personal respirator worn to provide protection from the hazards of gases, vapours, fumes and dusts. Breathing apparatus may be of the cartridge or canister type, self-contained air supply, remote air supply or dust mask type.

WARNING THE READER SHOULD REFER TO AS 1715 FOR THE SELECTION, CARE, USE AND LIMITATIONS OF VARIOUS TYPES OF BREATHING APPARATUS.

- 1.4.2 Corrosives—substances which, by chemical action can cause severe damage when in contact with living tissue or, in the case of leakage, will materially damage or even destroy other goods, containers or the means of transport.
- 1.4.3 Cryogenic—describing gases that have liquefied when cooled to temperatures below -150 °C, e.g. liquid nitrogen.

NOTE: Cryogenic substances can produce severe body burns, similar to heat burns, or can cause embrittlement of materials such as metals.

^{*} This document is referenced numerous times in this Standard, where it is abbreviated as the ADG Code.