

Australian Standard[®]

Road tank vehicles for dangerous goods

**Part 1: General requirements for all
road tank vehicles**

STANDARDS
Australia



This Australian Standard® was prepared by Committee ME-057, Road Tankers for Hazardous Liquids and Gases. It was approved on behalf of the Council of Standards Australia on 6 March 2008.

This Standard was published on 5 May 2008.

The following are represented on Committee ME-057:

- Australasian Fire Authorities Council
 - Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Australian Liquefied Petroleum Gas Association
 - Australian and New Zealand Industrial Gas Association
 - Department of Consumer and Employment Protection, WA
 - Department of the Premier and Cabinet, SA
 - Petroleum Industry Contractors Association
 - Queensland Transport
 - The Australian Gas Association
 - Victorian Transport Association
 - Victorian Work Cover Authority
-

This Standard was issued in draft form for comment as DR 05389.

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 and through the public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard[®]

Road tank vehicles for dangerous goods

**Part 1: General requirements for all
road tank vehicles**

Originally as part of AS 2016—1977.
Previous edition AS 2809.1—1999.
Third edition 2008.

COPYRIGHT

© Standards Australia

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

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

ISBN 0 7337 8635 9

PREFACE

This Standard was prepared by the Standards Australia Committee ME-057, Road Tank Vehicles for Dangerous Goods to supersede AS 2809.1—1999, *Road tank vehicles for dangerous goods, Part 1: General requirements*.

This Standard specifies general requirements for all road tank vehicles. Additional specific requirements applicable to particular road tank vehicles are detailed in the appropriate part of the AS 2809 series of Standards. The suite of Standards for road tank vehicles comprises six (6) Parts.

The scope of the brief given to the Committee was to review Parts 1, 2 and 3.

NOTE: Parts 4, 5 and 6 are to be reviewed at a later date yet to be determined.

The following Parts have been revised by the Committee:

Part 1: General requirements for all road tank vehicles

Part 2: Road tank vehicles for flammable liquids

Part 3: Road tank vehicles for compressed liquefied gases

This Standard is intended to serve as a reference Standard for the various statutory authorities administering regulations for the safe transport and handling of dangerous goods, and the wording of its title and its scope clauses have been chosen to align with the Australian Dangerous Goods (ADG Code).

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 a Standard, whereas an 'informative' appendix is only for information and guidance.

Other authorities and regulations may affect the use of this Standard and users should be aware of the possibility.

IT SHOULD BE NOTED THAT COMPLIANCE WITH THIS STANDARD MAY NOT NECESSARILY FULFIL ALL LEGAL OBLIGATIONS.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	4
1.2 OBJECTIVE.....	4
1.3 APPLICATION	4
1.4 REFERENCED DOCUMENTS	4
1.5 DEFINITIONS	4
1.6 NEW DESIGNS AND INNOVATIONS	8
SECTION 2 VEHICLE DESIGN AND CONSTRUCTION	
2.1 BASIC DESIGN.....	9
2.2 TRAILERS AND SEMITRAILERS	11
2.3 FIRE EXTINGUISHERS	11
2.4 PUMPS.....	12
2.5 ENGINES	12
2.6 SAFETY.....	13
2.7 SIGNS, NOTICES AND MARKINGS	13
2.8 HEATING DUCTS.....	13
SECTION 3 VEHICLE INSPECTION	
3.1 INSPECTION	14
3.2 ITEMS.....	14
3.3 REPAIRS.....	14
APPENDICES	
A LIST OF REFERENCED AND RELATED DOCUMENTS	15
B ROAD TANK VEHICLE STABILITY	16

STANDARDS AUSTRALIA

Australian Standard
Road tank vehicles for dangerous goods**Part 1: General requirements for all road tank vehicles**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies general requirements for the design, construction, testing, maintenance and inspection of road tank vehicles, irrespective of the cargo, that are intended for the road transport of dangerous goods. The Standard deals with vehicles that are designed and constructed specifically as road tank vehicles. It is applicable also to conventional vehicles that are to carry portable or demountable tank or tank containers which are filled or emptied whilst on the vehicle and as a consequence are deemed to be a road tank vehicle.

The general vehicle and safety requirements are regulated by the Australian Design Rules (ADR) issued by the Department of Transport and Regional Services and these rules are outside the scope of this Standard.

Throughout this Standard the term ‘road tank vehicle’ is used and has the same meaning as tanker.

1.2 OBJECTIVE

The objective of this Standard is to provide designers, planners, operators and regulators with technical requirements for road tank vehicles transporting dangerous goods.

1.3 APPLICATION

Road tank vehicles intended for the transport of dangerous goods shall comply with this Standard, and with such other Part of the AS 2809 series as is relevant to the special needs of the particular cargo. Where a cargo has two characteristics, e.g. toxic and flammable, or where a road tank vehicle is switched from one cargo to another, the requirements of all relevant Parts shall apply.

1.4 REFERENCED DOCUMENTS

A list of the documents referred to in this Standard is provided in Appendix A.

1.5 DEFINITIONS

For the purposes of this Standard, the definitions in the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) and the following definitions apply. The following definitions need to be read in conjunction with the definition in the ADG Code:

1.5.1 ADR

Australian Design Rules.