



Road tank vehicles for dangerous goods

Part 1: General requirements for all road tank vehicles



AS 2809.1:2020

This Australian Standard® was prepared by ME-057, Road Tankers For Hazardous Liquids And Gases. It was approved on behalf of the Council of Standards Australia on 26 March 2020.

This Standard was published on 9 April 2020.

The following are represented on Committee ME-057:

- Australasian Convenience and Petroleum Marketers Association
- Australasian Fire and Emergency Service Authorities Council
- Australia New Zealand Industrial Gas Association
- Australian Industry Group
- Australian Institute of Petroleum
- Australian Trucking Association
- Chemistry Australia
- Commercial Vehicle Industry Association of Australia
- Department of Natural Resources, Mines and Energy, Qld
- Department of Transport and Main Roads, Qld
- EPA NSW
- Gas Energy Australia
- Heavy Vehicle Industry Australia
- National Bulk Tanker Association
- National Heavy Vehicle Regulator
- SafeWork SA
- Truck Industry Council
- WorkSafe Victoria

This Standard was issued in draft form for comment as DR AS 2809.1:2018.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au



Road tank vehicles for dangerous goods

Part 1: General requirements for all road tank vehicles

Originated as part of AS 2016—1977.
Previous edition AS 2809.1—2008.
Fourth edition 2020.

COPYRIGHT

© Standards Australia Limited 2020

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, unless otherwise permitted under the Copyright Act 1968 (Cth).

Preface

This Standard was prepared by the Standards Australia Committee ME-057, Road Tank Vehicles for Dangerous Goods, to supersede AS 2809.1—2008, *Road tank vehicles for dangerous goods, Part 1: General requirements*.

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

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 on road tank vehicles, which comprises six parts.

The major changes in this edition are as follows:

- (a) Duplicate clauses on maintenance and multiple tank types from other parts of the AS 2809 series have been amalgamated in this Standard.
- (b) Terms and definitions have been added, improved, and amalgamated from other parts of the AS 2809 series, into this Standard.
- (c) Design and electrical provisions have been revised and amalgamated from other parts of the AS 2809 series into this Standard.
- (d) The static roll-over threshold (SRT) method for stability has been included.
- (e) [Appendix B](#) has been aligned with current practice.

This Standard is intended to serve as a reference Standard for industry and for the various statutory authorities administering regulations for the safe design and maintenance of dangerous goods road tank vehicles. The wording of the title and scope have been chosen to align with the Australian Dangerous Goods (ADG Code).

Authorities and regulations may affect the use of this Standard. Conformance with this Standard does not fulfil all legal obligations. Designers, manufacturers and importers have a legal obligation to ensure, so far as is reasonably practicable, that plant and equipment is without risks to health and safety to workers throughout its life.

The terms “normative” and “informative” are used in Standards 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.

Contents

Preface	ii
Section 1 Scope and general	1
1.1 Scope.....	1
1.2 Application.....	1
1.3 Normative references.....	1
1.4 Terms and definitions.....	2
1.5 New designs and innovations.....	8
Section 2 Vehicle design and construction	9
2.1 Basic design.....	9
2.1.1 General.....	9
2.1.2 Stability.....	9
2.1.3 Roll stability systems.....	9
2.1.4 Road clearance.....	10
2.1.5 Cabin-to-tank clearance.....	10
2.1.6 Rear impact protection.....	10
2.1.7 Guarding.....	11
2.1.8 Tail shafts.....	12
2.1.9 Vehicle main driver cabin.....	12
2.1.10 Battery.....	12
2.1.11 Battery isolation switch.....	12
2.1.12 Permanently energized circuits.....	13
2.1.13 Vehicle roll-over device.....	13
2.2 Cabling and wiring.....	13
2.3 Equipment for hazardous areas.....	14
2.4 Lighting for hazardous areas.....	14
2.4.1 General.....	14
2.4.2 Brake interlock driveway protection.....	16
2.4.3 Spillage hazards.....	16
2.5 Stability of disconnected trailers.....	16
2.6 Fire extinguishers.....	16
2.7 Pump pressure and controls.....	16
2.8 Road tank vehicles.....	16
2.8.1 Propulsion engines.....	16
2.8.2 Auxiliary engines.....	16
2.9 Safety.....	17
2.9.1 Safety equipment.....	17
2.9.2 Road transport documentation.....	17
2.9.3 Tank ladder, steps and fall arrest.....	17
2.9.4 Mudguards.....	17
2.10 Markings.....	17
2.10.1 Remote valve operation.....	17
2.10.2 Identification plate.....	17
2.10.3 Heating jackets/ducts.....	17
2.11 Heating jackets/ducts.....	17
Section 3 Vehicle inspection	18
3.1 General.....	18
3.2 Regular inspection and maintenance intervals.....	18
3.3 Performance testing.....	20
3.4 Competency.....	20
3.5 Precautions.....	21
3.5.1 General.....	21
3.5.2 Flammable cargoes.....	21
3.6 Confined space entry.....	22
3.7 Gas-freeing/purging operations.....	22

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

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-