

Shipping & Packaging Dangerous Goods (DGs) Fact Sheet

Dangerous goods are substances and articles that have explosive, flammable, toxic, infectious or corrosive properties.

The correct packaging of Dangerous Goods protects everyone in your supply chain.

The safety of property, the environment and people, all depend on the safe transportation of Dangerous Goods.

Regulations

Transportation of Dangerous Goods is regulated by the Australian Dangerous Goods Code Edition 7.8 (<https://www.ntc.gov.au/codes-and-guidelines/australian-dangerous-goods-code>) (ADG 7.8).

A complete copy of the Code is available on the National Transport Commission website at www.ntc.gov.au.

Dangerous Goods Training is Essential

Your team should complete training prior to packaging and shipping Dangerous Goods.

Please visit www.dgtrainer.com.au for DG Training.



Your Dangerous Goods Shipping Checklist

Before you ship Dangerous Goods, you must make sure you have:

- Correct packaging
- Correct labelling
- Correct paperwork
- Passed the dg information to the driver

Responsibilities of the Sender

State the UN Number

A UN number is a four-digit number that identifies dangerous goods, hazardous substances and articles (such as explosives, flammable liquids, toxic substances, etc.) in the framework of international transport.

Use the Correct Packaging

Dangerous Goods require specialist packaging to ensure they can be safely transported. Make sure your DGs packaging is compliant and in line with the Code.

For Dangerous Goods packaging and labels, visit www.hazpak.com.au



Correctly Label the Package

Each Class of DG has a specific label that's required to be affixed to the packaging. See the section Dangerous Goods Labelling for more information.

Check for Compatibility

Certain classes of Dangerous Goods are not compatible and can cause dangerous reactions and explosions when mixed together.

Incompatible Dangerous Goods CANNOT be transported together.

See the section Dangerous Goods Compatibility for more information.

Consigning Dangerous Goods in Cario

When consigning your dangerous goods, you must make sure that the correct information is entered into the Cario Transport Management System.

You will need to:

1. Enter the
 - UN Number
 - Proper Shipping Name
 - DG Class
 - DG Division
2. Declare the correct DG Quantity
3. Supply a Contact Name & Phone Number

Dangerous Goods Classes, Divisions & Packing Groups

Dangerous Goods substances and articles are allocated into 9 Classes, with some Classes broken down into divisions as outlined in the following diagram:

These are:

1.1, 1.2, 1.3	EXPLOSIVES		2.3	TOXIC GASES		5.2	New Label, ORGANIC PEROXIDES		7 Cont	FISSILE MATERIAL		
1.4	Substances and articles which present no particular hazard		3	FLAMMABLE LIQUIDS			Old Label (not permissible after 1 January 2011)		8	CORROSIVE SUBSTANCES		
1.5	Very insensitive substances which have a mass explosion hazard		4.1	FLAMMABLE SOLIDS		6.1	TOXIC SUBSTANCES		9	MISCELLANEOUS DANGEROUS SUBSTANCES & ARTICLES		
1.6	Extremely insensitive articles which do not have a mass explosion hazard		4.2	SUBSTANCES LIABLE TO SPONTANEOUS COMBUSTION		6.2	INFECTIOUS SUBSTANCES		MIXED CLASSES (for road or rail transport or for storage in Australia)			
2.1	FLAMMABLE GASES		4.3	SUBSTANCES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES		7	RADIOACTIVE MATERIAL (Category I)		ELEVATED TEMPERATURE SUBSTANCES			
2.2	NON-FLAMMABLE NON-TOXIC GASES		5.1	OXIDIZING SUBSTANCES			RADIOACTIVE MATERIAL (Category II or III)		ENVIRONMENTALLY HAZARDOUS SUBSTANCES			
2.2 Sub-risk	OXIDISING GAS (Oxygen and Nitrous Oxide - only for road or rail transport or for storage in Australia)											
5.1												

Dangerous Goods Labelling



Dangerous Goods Storage Placards



Dangerous Goods Compatibility

DANGEROUS GOODS COMPATIBILITY AND GHS LABELLING ELEMENTS DISPLAY

CLASS	2.1*	2.2*	3	4.1	4.2	4.3	5.1	5.2	6	8
2.1*										
2.2*										
3										
4.1										
4.2										
4.3										
5.1										
5.2										
6										
8										

*Refers to aerosols and non-refillable metal packs. For segregation of gas cylinders refer to AS/NZS 4332:2004

Product Identifier
Identify and proportion of each ingredient
A **Signal word**: This indicates the severity of the hazard. Warning is used for less severe hazards while **Danger** means severe hazards.
A **Pictogram**: A pictogram is a symbol that is intended to quickly convey specific information about the hazards of chemicals. It is a black symbol on a white background within a red diamond.
A **Hazard Statement**: This brief and to-the-point message describes the nature of the hazard, such as "Fatal if swallowed".
A **Precautionary Statement**: Here's where you'll learn how to respond in case of exposure and/or how to store the chemical properly.
Contact details of Australian manufacturer or importer

KEY

SEPARATE	Dangerous goods of these two classes should be kept apart by at least three metres or other suitable control measures. Consult Safety Data Sheet or supplier.
SEGREGATE	Dangerous goods of these two classes are likely to interact with each other in such a way as to significantly increase risk and should not be kept in the same area unless it can be demonstrated that the risks can be fully controlled. Consult SDS for further guidance.
ISOLATE	Dedicated stores or storage cabinets are recommended. Adequate separation from other buildings and boundaries is required. Consult SDS for further guidance.
REFERS TO SDS	Segregation of these two classes may be necessary. Refer to the SDS for further guidance. All Class 9 dangerous goods should be segregated in accordance with the SDS.
OK	Dangerous goods of the same class have similar primary hazards and are usually considered compatible. Consult with the SDS or supplier about requirements for individual substances.

Australian Dangerous Goods Code at www.nrc.gov.au Australian Standard 3833: The Storage and Handling of Mixed Classes of Dangerous Goods, in Packages and Intermediate Bulk Containers.

CLASS TYPES:
Class 2.1—Flammable Gas
Class 2.2—Non Flammable Non Toxic Gas
Class 3—Flammable Liquid
Class 4.1—Flammable Solid
Class 4.2—Spontaneously Combustible
Class 4.3—Dangerous When Wet
Class 5.1—Oxidising Agent
Class 5.2—Organic Peroxide
Class 6—Toxic
Class 8—Corrosive

Source: Adapted from AS/NZS 3833:2007

Aromasol
2.5 L

DANGER

Highly flammable liquid and vapour
Toxic if swallowed
Causes skin irritation
May cause cancer
May be fatal if swallowed and enters airways

If OX (OX) or (OX): Take off contaminated clothing and wash before re-use. Wash skin using plenty of soap and water. If exposed or concerned: Get medical attention.
If OX (OX) (OX): Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Store locked up in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local regulations.

In case of fire: Use powder for extinction. Keep away from sparks and open flames—no smoking. Keep container tightly closed. Grounded container and receiving equipment. Take precautionary measure against static discharge. Wear protective gloves and eye and face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Manufacturer: Chemcorp Pty Ltd, 100 Chemical Street, Chemical Free, My State 15344, Tel: 0130 000 000
www.roadmap-chemicalgroup.com.au

GHS COMPLIANT LABEL

Aromasol
2.5 L

FLAMMABLE LIQUID, TOXIC N.O.S. (aromatic hydrocarbons, toxicole)
DANGER

Highly flammable liquid and vapour
Toxic if swallowed
Causes skin irritation
May cause cancer
May be fatal if swallowed and enters airways

If OX (OX) or (OX): Take off contaminated clothing and wash before re-use. Wash skin using plenty of soap and water. If exposed or concerned: Get medical attention.
If OX (OX) (OX): Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Store locked up in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local regulations.

In case of fire: Use powder for extinction. Keep away from sparks and open flames—no smoking. Keep container tightly closed. Grounded container and receiving equipment. Take precautionary measure against static discharge. Wear protective gloves and eye and face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Manufacturer: Chemcorp Pty Ltd, 100 Chemical Street, Chemical Free, My State 15344, Tel: 0130 000 000
www.roadmap-chemicalgroup.com.au

ADG COMPLIANT LABEL

Undeclared Dangerous Goods

If you fail to mark a Dangerous Goods shipment correctly, you're at risk of shipping an Undeclared Dangerous Good.

A Dangerous Good is classed as undeclared when:

- The shipment is missing the required shipping declaration or paperwork
- Has no visible markings or labels
- Does not include the required hazard information

Penalties apply for failing to declare Dangerous Goods and include Imprisonment for 2 years.

Have questions about shipping Dangerous Goods?

Consigning Dangerous Goods correctly is critical for a safe supply chain. There are a number of regulations your team must adhere to.

If you're in doubt or want to confirm something about a Dangerous Goods shipment, please get in touch with the Freight People team. We have Dangerous Goods partners that can assist with more specific advice as required.

1800 621 036

www.freightpeople.com.au