

PRODUCT STEWARDSHIP CUSTOMER SCREENING PROCESS INSECTIGAS D



INTRODUCTION

Thank you for your enquiry into the purchase of Insectigas D from BOC Ltd. BOC aims to comply with all relevant regulatory requirements and standards as part of the BOC Product Stewardship programme. BOC has extensive experience in the management, handling and transport of dangerous goods.

As part of the BOC Product Stewardship programme, all customers purchasing Insectigas D are required to complete a customer screening check prior to their first purchase, and once every five years thereafter.

The purpose of the screening is to ensure customers understand and have in place the following:

- Management systems required to ensure compliance with relevant legislation and AS/NZ standards;
- Risk controls, in particular personal protective equipment (PPE), applicable to Insectigas D;
- Regulatory documentation and notification requirements for storage, handling and transport of Insectigas D;
- Security and emergency management arrangements.

Please note that the manufacturers, suppliers and users of dangerous goods and hazardous substances have specific obligations under Occupational Health and Safety law. As part of these requirements, BOC has provided a copy of the current Insectigas D MSDS.

Important Note – Review and approval of screening documents may take up to one (1) week to complete.

ACTIONS REQUIRED BY YOU (THE PURCHASER)

As part of this pack we are providing a Management System Questionnaire and End User declaration form. We ask you to complete and return them to us together with any other supporting material either via as a scanned email to productstewardshipRSP@boc.com or via fax on 02 9886 9070. In addition to these forms, we have also provided material enabling you to conduct workplace assessment for health and safety. The use of this material is one manner to ensure that the employee consultation, information, training and instruction elements of the questionnaire are satisfied. It may also assist with other areas of the questionnaire.

Note - All information provided to BOC is held on the internal database under strict access control by Senior SHEQ Management. The data and information is not used for any other purpose other than supporting information for the screening process.



Product Stewardship



Product Seeking to Purchase:

Account Name:

Account Number:

State:

Part 1 – Dangerous Goods General Information

Instruction

- Please indicate all answers with an “X”

1. Do you have a register of dangerous goods?

Note

This may be combined with a hazardous substances register.

No

Yes

Not Applicable

2. Are you aware of the requirements outlined in relevant regulations AS/NZS standard or Codes of Practice for the storage, handling and use of the product you wish to purchase?

Note

Further guidance can be found in Appendix 6 of the explanatory pack.

No

Yes

Not Applicable

3. Have you completed a hazardous substances / dangerous goods risk assessment on the product you wish to purchase?

No

Yes ► Please attach a copy of the completed assessment with the completed questionnaire

Not Applicable

4. Have your employees been consulted with and provided with hazardous substances / dangerous goods risk assessment and control detail?

Note
A sample employee questionnaire is provided with the explanatory pack.

No

Yes ► Please attach evidence with the completed questionnaire

Not Applicable

Part 2 – Plant Associated with Dangerous Goods

5. Do you have a register of all plant associated with the storage handling and use of dangerous goods (including the product you wish to purchase)?

Note
The plant regulations of the OH&S acts in all Australia jurisdictions contain a requirements to develop and maintain a register of plant.

No

Yes ► If yes, please attach evidence of notification to relevant regulator authority

Not Applicable

6. Have you conducted and recorded risk assessments for plant?

Note
The plant regulations of the OH&S acts in all Australia jurisdictions contain a requirements to develop and maintain a register of plant.

- No  Go to question 10
- Yes  Please attach a copy of a completed risk assessment for plant associated with the use of the chemical you wish to purchase
- Not Applicable

7. Have you applied the risk controls identified with the outcomes of the risk assessments identified in question 8?

- No
- Yes
- Not Applicable

8. Do you have formal maintenance and inspection routines for plant, containers, equipment, structures, fire equipment, engineering controls and critical safety devices?

- No
- Yes
- Not Applicable

9. Do you have formal permit systems for work involving hazardous areas and are JSAs or work method statements used for all work employees and contractors?

- No
- Yes
- Not Applicable

10. Do you have formal housekeeping routines?

No

Yes

Not Applicable

11. Are the construction materials used in the system compatible with the product being used?

No

Yes

Not Applicable

12. Have your employees been trained in the use of dangerous goods?

No

▶ Training is available from BOC, contact your BOC representative

Yes

Not Applicable

13. Have all the users of the product being purchased been trained on the properties, hazards, safe handling, storage and emergency procedures of the product being purchased?

No

Yes

Not Applicable

14. Do you consult with employees on hazard identification, risk assessment and control of risk for additions, modification and deletions to dangerous goods, hazardous substances and plant associated with dangerous goods?

No

Yes

Not Applicable

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15. Do you provide and maintain records of induction information, training and instruction provided for all personnel including contractors?

No

Yes

Not Applicable

16. Do you advise visitors of all risks associated with dangerous goods?

No

Yes

Not Applicable

Part 3 – Storage and Handling

17. Are the cylinders stored and used in a well ventilated area that is preferably out of direct sunlight and in accordance with applicable local regulations?

No

Yes

Not Applicable

18. Are the cylinders restrained in such a way as to prevent them from falling over, when stored or in use.

Note
Further guidance can be obtained from AS4332 or your BOC representative.

No

Yes

Not Applicable

2. PRODUCT STEWARDSHIP CUSTOMER SCREENING QUESTIONNAIRE

19. If the chemical is flammable, is it stored in a designated non-smoking area and at a proper safety distance from ignition sources and other sources of heat?

Note

Further guidance can be obtained from AS4332 or your BOC representative.

No

Yes

Not Applicable

20. Do you declare that the pressure system has been designed and built to the maximum working pressure, is checked periodically and meets applicable local regulations?

No

Yes

Not Applicable

21. Where there is a potential for back flow, is there a system in place to ensure that back-contamination or over-pressurisation of the cylinder is avoided?

No

Yes

Not Applicable

22. If an inert gas is used in your process to pressurise the cylinder containing the product being purchased, are you aware of the potential for contamination of the inert gas supply of the cylinder containing the product being purchased?

No

Yes

Not Applicable

23. Is appropriate PPE in use with the product being used?

Note

Advice on the PPE to be used can be obtained from the MSDS.

PPE can be purchased from your local BOC outlet or ordered via telephone on 131 262.

No

Yes

Not Applicable

Part 4 – Emergency Management Arrangements

24. Do you have emergency plans in place?

Note

There is a BOC requirement to have emergency procedures in place when dealing with gases.

No

Yes

Not Applicable

25. Do you have an incident investigation and reporting procedure in place?

No

Not Applicable

Yes

Does it include any regulatory notification requirements and are they understood?

26. Does it include any regulatory notification requirements and are they understood?

No

Yes

Not Applicable

27. Do you have appropriate first aid measures in place (as may be identified in the MSDS)?

No

Yes

Not Applicable

28. Do you have appropriate fire fighting and/or other incident mitigation equipment in place (as identified in the MSDS, risk assessment or relevant standards/codes of practice)?

No

Yes

Not Applicable

Part 5 – Security

29. Do you have access control for the substance being purchased?

Note
There must be an individual with direct responsibility for ensuring the security of gases on site. They must be able to report to BOC at any time the number, current location and content of any sensitive chemicals on their account. Any loss or theft of any BOC product must be reported to BOC using the 131 262 number.

No

Yes

Not Applicable

30. Is the product being purchased only available to authorised personnel?

Note
Unauthorised use is defined as non-members if staff or untrained staff using the chemical. Access should be restricted to trained personnel. Examples of restraint include locked cages, chains etc.

No

Yes

Not Applicable

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Part 6 – Responsibilities

31. Do you have arrangements in place, including a responsible person for the following :

Note
Both regulatory and BOC standards dictate that arrangement be put in place and a person be responsible for particular matters related to safety.

	Yes	No
1. Induction, Training, Supervision of Personnel including contractors?	<input type="checkbox"/>	<input type="checkbox"/>
2. Regulatory notification to State OH&S Regulator, Fire Authority or other bodies (EPA, ASIO)?	<input type="checkbox"/>	<input type="checkbox"/>
3. Incident Investigation and notification (internal and regulatory)?	<input type="checkbox"/>	<input type="checkbox"/>
4. Workplace Substances Register and Manifest (Dangerous Goods)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Placarding and Signage?	<input type="checkbox"/>	<input type="checkbox"/>

Part 7 – Licencing

32. Is the product that you are looking to purchase classed as a pesticide or insecticide?

Note
For certain products there are specific licences that you may need to have prior to being able to purchase them. Requirements differ between States and Territories.

No

Yes

Not Applicable

Please attach a copy of any licences required with the completed questionnaire.
A table of requirements is attached with this questionnaire

End of Questionnaire – Please sign the details below :

Company:

Address:

Date:

I declare that the information I have given is true and correct

Signature:

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End-User Declaration

The chemical product and/or the scientific apparatus, I wish to purchase is classified as a possible illicit drug precursor or auxiliary reagent. I understand that, to be supplied with this product or apparatus, I must complete this declaration and provide it to the supplier*.

Gas Code	Product Name	Expected Quantity	Cylinder Size	Purchase Order No.

The intended use for the chemical product and/or the scientific apparatus is (please tick):

<input type="checkbox"/>	Analytical	<input type="checkbox"/>	Resale
<input type="checkbox"/>	Research and Design	<input type="checkbox"/>	Other (Please specify)
<input type="checkbox"/>	Manufacturing		

Please specify full details of assay, project, product and customer purpose to which the product/apparatus will be put:

Purchase Details & Declaration

I, being
(FULL NAME) (POSITION)

On behalf of ABN
(COMPANY OR INSTITUTION)

Address

Contact Phone No Account No

Declare that the above chemical product/apparatus will not be used by me, nor a recipient I represent, for the manufacturing of illicit drugs.

Signature Date:

Purchaser Identification (Valid Photo ID Required – Attach Copy of 1 of the following)

Current Passport No		Country of Issue		Expiry Date	
Driver's Licence No		Country of Issue		Expiry Date	
Photo Identification Card Type				Expiry Date	

Details of Collection Agent's Identification – If different to Purchaser (Valid Photo ID Required – Attach Copy of 1 of the following)

Current Passport No		Country of Issue		Expiry Date	
Driver's Licence No		Country of Issue		Expiry Date	
Photo Identification Card Type				Expiry Date	

Product Collection Details (Please ensure you bring your identification when collecting product)

Collect from Gas & Gear/Agent (Specify name): Deliver

Note: Please attach a copy of all photo identification. All applicable details on this declaration must be completed,

PRODUCT STEWARDSHIP CUSTOMER SCREENING PROCESS INSECTIGAS D



FORMS & GUIDANCE MEDIA

1. Workplace Information Sheets

- This is a summary of information contained within the material safety data sheet (MSDS). Dangerous goods and hazardous substances legislation obliges you to provide information, training and instruction to your employees. This 'snapshot' provides the important elements to enable that to occur. A viable workplace assessment can be done with this information (with the MSDS providing further detail if required). This is also a requirement of legislation.

2. Placarding and Manifest Quantities of Dangerous Goods, Storage and Handling

- 'Placarding' and 'Manifest' quantities are very important in identifying your regulatory Notification requirements. In Victoria "Fire Protection" quantity (above placarding and manifest quantity) introduces additional Fire Authority requirements for advice on fire protection.
- This information sheet provides, not only the placard and manifest quantities for the various gases of dangerous goods Class 2 (which are predominantly BOC products), but also the quantities for other dangerous goods classes that you may store, handle, use or supply. It is important in identifying your regulatory obligation to aggregate (add up) the other dangerous goods, for example, petrol, diesel, flammable paints, to arrive at the right quantity. Remember that quantities for regulatory purposes are calculated by water capacity of a container for liquids or mass for solids. For example, a 'G' size cylinder of gas is 50L water capacity – a 'fat boy' LPG cylinder is 498L water capacity – a 'bulkibag' or 'bulkibox' container of solids on a pallet is 1,000kg. Typically when you are above manifest quantity you will have to Notify the regulatory authority.

3. Dangerous Goods by Class, Class Labels & Packing Group Workplace Information Sheet

- This workplace information sheet displays the 9 dangerous goods classes (and subclasses) with examples for each class and subclass.

4. Dangerous Goods Class Segregation Matrix Storage & Handling

- This workplace information sheet provides a ready reference to which class requires storage separation or segregation from other classes (for transport the rules modify by use of segregation devices).

5. Assessment Questionnaire Management Systems and End User Declaration

- This questionnaire is made up of the sort of questions that might be asked by the regulatory authority in a 'management systems' audit of your premises. In this case it enables you to ensure that you can manage our products appropriately or to implement systems to do so. The End User declaration is used to inform BOC of your intended use for the product. Please ensure that you provide copies of the appropriate identification required with this form.



PRODUCT STEWARDSHIP CUSTOMER SCREENING PROCESS INSECTIGAS D



6. Guidance Note Dangerous Goods / AS/NZS Standards

- This guidance note has elements of Australian / New Zealand Standards which are referenced in dangerous goods legislation and is provided for your information.

Please complete these forms honestly and to the best of your ability, as any deficiencies may result in a delay in getting an approval for the supply of the product.. If you have any further questions in relation to this check, please contact the Product Stewardship manager via email at productstewardshipRSP@boc.com

As a service to our customers, we have enclosed a brief employer guide to workplace assessment for your use. Please note that in the event of an emergency involving the container (Cylinder / Drum) of Insectigas D contact 000 and the BOC 24 hour Emergency response line on 1800 653 572 (AUS) / 0800 111 333 (NZ).



PRODUCT STEWARDSHIP CUSTOMER SCREENING PROCESS INSECTIGAS D



EMPLOYER GUIDE TO WORKPLACE ASSESSMENT

- Keep in mind that even if you are a sole operator, you are responsible for your own health and safety (you employ yourself).
- By use of the Workplace Information Sheets and practical workplace input, you will ensure that health and safety hazards are identified, risk assessed and risk controls applied to ensure safe use of BOC products.
- In a team environment, discuss the following using the Workplace Information Template provided in the pack:.

Step 1. Substances that are of a chemical nature can be classified as dangerous goods or as hazardous substances. Often a substance is both dangerous and hazardous. Gases are always dangerous because they are compressed or under pressure as liquefied gases. "Dangerous" means a potential immediate effect will occur of:-

- Fire or
- Explosion or
- Toxicity or
- Corrosivity.

This may lead to possible affects on people, property and environment. Many are hazardous to health because they will effect your health by exposure either in the short of long term (this is call "acute" or "chronic" exposure).

Examples:

<i>Product</i>	<i>Dangerous</i>	<i>Hazardous</i>
▪ Acetylene	Yes	No
▪ Oxygen	Yes	No
▪ Hydrogen	Yes	No
▪ Gaseous Ammonia	Yes	Yes
▪ Fumigas (Methyl Bromide)	Yes	Yes
▪ Hydrogen Sulphide	Yes	Yes

Step 2. Discuss and explain the MSDS and Workplace Information Sheet

Step 3. Discuss and explain what exposure routes are and the effects

- Oral
- Eye
- Skin
- Inhalation

Step 4. Discuss and explain the personal protective equipment (PPE) required for:

- Use;
- Storage and handling;
- Transport;
- Maintenance.

Step 5. Discuss and explain first aid and emergency response requirements:

- "if safe to do so";
- Fire brigade;
- Evacuation;
- PPE;
- Specialist advice.



PRODUCT STEWARDSHIP CUSTOMER SCREENING PROCESS INSECTIGAS D



Step 6. Discuss and explain segregation requirements (what can go with what?)

Step 7. Discuss and explain the other dangerous goods classes, placarding quantity, manifest quantity, placard loads (transport)

Step 8. At this point, ask the employee to complete a simple questionnaire and declaration. This is not too daunting as the answers are found in the workplace information sheets and you will have discussed them. This exercise is not about pass or failure (failure is not on the agenda). It is to ensure understanding and create a safe working environment.

- For dangerous goods remember that you must make available to your people the risk assessments you have done for storage, handling and transport.
- For hazardous substances (remember BOC gases can be both) remember that you must provide appropriate risk controls and information, training and instruction to your people before you store, handle or use to product.



**4. PRODUCT STEWARDSHIP
 TEMPLATE RISK ASSESSMENT
 WORKSHEET/WORKPLACE ASSESSMENT TEMPLATE**



Hazardous Substance Risk Assessment Record					
Work Unit (JOB):		Assessment Team:			Date:
Works Areas A:					
B:					
Hazardous Substance	Hazard Information	Task	Exposure Routes	Assessment/ Findings	Comments
Reported Health Effects:					
Coments					
Assessors Signature:				Date:	
Approved By:		Signature:		Date:	

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The product risk assessment information is based on the 'Guidance Note for the Assessment of Health Risks Arising from the use of Hazardous Substances in the Workplace (NOHSC:3017(1994)'. The guidance note and completed examples are available on the Product Stewardship webpage, for further information contact your BOC representative.



5. PRODUCT STEWARDSHIP CUSTOMER SCREENING QUESTIONNAIRE

Licensing Requirements

Licensing requirements listed below are applicable to customers of Insectigas-D™, Pestigas™, Agrigas™ and M, Vapormate™.

State	Pest Control Business	Pest Controls	Schedule 7 Users	Comments
NSW	-	Pest Management Technician Certificate or Fumigator Certificate** (WorkCover Ph: 131050)	No requirements for primary producers, horticulturists and licensed pest controllers	A specific level of competency in pesticide use (www.environment.nsw.gov.au/pesticides/trainers.htm)
VIC	Commercial Operator Licence (Dept. of Human Services Ph: 03 9637 4156)	Licence to use Pesticides (Dept. of Human Services Ph: 039637 4156)	Agricultural Chemical User's Permit (ACUP) (Dept. of Primary Industries)	Applicator (Chemical rating) certificate
SA	Licence (Dept. of Health Ph: 08 8226 7117 or 7137)	Pest Management Technician Licence (Dept of Health Ph: 08 8226 7117 or 7137)	Chemical competency qualifications (PRPSA Ph: 08 8226 0549)	
WA	Commercial Pesticide Firm Registration (Pesticide Safety – Dept. of Health)	Full Pesticide Licence* or Fumigators Licence (Pesticide Safety – Dept. of Health Ph: 08 9383 4244)	Purchaser to obtain a permit under Positions Act & Regs (Dept. of Health)	Use of Dichirvos must be stated on the list of approved use substances on WA Health licence.
QLD	-	Pest Management Technician Licence (Environmental Health Unit Ph: 07 3234 0967)	No requirements for primary producers, horticulturists and licensed pest controllers	A pest activity being used in primary production does not require a licence.
Tas	Commercial Operator Licence (Dept. of Primary Industries Water and Environment Ph: 03 6233 6825)	Pest Management Technician Certificate (Dept. of Primary Industries Water and Environment Ph: 03 6233 6825)	Methyl Bromide User Certificate of Competency is required for Agrigas	Chemical user certificate of competency Category 2
NT	-	Pest Control Operator Licence (Chief Health Officer Ph: 08 8922 7341)	Licence or authorisation to use a Schedule 7 substance***	

* Users of Insectigas D are also required to attend the BOC training course as a condition of their licence

** The acquisition, supply or use of a Schedule 7 substance for domestic purposes requires an authority from NSW Health

*** Licence must be sighted by the supplier before any Schedule 7 substance is supplied

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Product Stewardship

6. PLACARDING AND MANIFEST QUANTITIES OF DANGEROUS GOODS STORAGE AND HANDLING

Notes:

Below “placarding” quantities are minor quantities in jurisdictions using the Australia National Standard and Code of Practice for Storage and Handling of Dangerous Goods. There may be some (minor) differences between this Standard, States Regulations and AS/NZS Standards - the quantities on this document provide an appropriate guide. Storages in manifest quantities and equal to or more than manifest quantities, either singly or in aggregate, call up prescribed requirements such as:

- Separation
- Bunding
- Ventilation
- Hazardous zoning

and introduce formal notification or licensing obligations with the regulatory authority including the Fire Authority.

You must identify your regulatory obligation.

Note that any quantities of dangerous goods is subject to risk assessment and controls.

CLASS 1—EXPLOSIVES

Class 1 explosives are subject to discrete regulations and you must obtain advice from the Regulatory Authority.



CLASS 2—GASES		
Placarding	Manifest	Class
5,000 L/kg	20,000 L/kg	Class 2.1 Aerosols
500 L/kg	5,000 L/kg	Class 2.1
2,000L/kg	10,000 L/kg	Class 2.2
1,000L/kg	10,000 L/kg	Class 2.2(5.1)
50L/kg	500 L/kg	Class 2.3



6. PLACARDING AND MANIFEST QUANTITIES OF DANGEROUS GOODS STORAGE AND HANDLING

CLASS 3—FLAMMABLE LIQUIDS CLASS C1, C2—COMBUSTIBLE LIQUIDS		
Placarding	Manifest	Class & Packing Group (PG)
50 L/kg	500 L/kg	Class 3 PG I
250 L/kg	2,500 L/kg	Class 3 PG II
1,000L/kg	10,000 L/kg	Class 3 PG III
Mixed PG's each below Placarding Quantity		
1,000 L/kg	10,000 L/kg	
Class C1 and C2 when stored with fire risk dangerous goods which are of Class or Subsidiary Class 2.1, 3, 4.1, 4.2, 4.3, 5.1 or 5.2		
1,000L/kg	10,000 L/kg	
Class C1 in Bulk		
10,000 L/kg	100,000 L/kg	
Class C1 in Packages		
50,000 L/kg	100,000 L/kg	
Note:- Always refer to AS1940, The storage and handling of flammable and combustible liquids for quantity limitations within areas.		



CLASS 4.1—FLAMMABLE SOLIDS CLASS 4.2—SPONTANEOUSLY COMBUSTIBLE CLASS 4.3—DANGEROUS WHEN WET		
Placarding	Manifest	Class & Packing Group (PG)
50 L/kg	500 L/kg	Class 4.1 PG I
250 L/kg	2,500 L/kg	Class 4.1 PG II
1,000L/kg	10,000 L/kg	Class 4.1 PG III
50 L/kg	500 L/kg	Class 4.2, Class 4.3 PG I
250 L/kg	2,500 L/kg	Class 4.2, Class 4.3 PG II
1,000 L/kg	10,000 L/kg	Class 4.2, Class 4.3 PG III



CLASS 5.1—OXIDISING AGENTS CLASS 5.2—ORGANIC PEROXIDES		
Placarding	Manifest	Class & Packing Group (PG)
50 L/kg	500 L/kg	Class 5.1 PG I
500 L/kg	2,500 L/kg	Class 5.1 PG II
1,000L/kg	10,000 L/kg	Class 5.1 PG III
Note:- Always refer to AS2714: The Storage and Handling of Hazardous Chemical Material - Class 5.2 Substances (Organic Peroxides)		



6. PLACARDING AND MANIFEST QUANTITIES OF DANGEROUS GOODS STORAGE AND HANDLING

CLASS 6.1—TOXIC SUBSTANCES		CLASS 6.2—INFECTIOUS SUBSTANCES	
Placarding	Manifest	Class & Packing Group (PG)	
50 L/kg	500 L/kg	Class 6.1 PG I	
500 L/kg	2,500 L/kg	Class 6.1 PG II	
1,000L/kg	10,000 L/kg	Class 6.1 PG III	



CLASS 7—RADIOACTIVE SUBSTANCES

You should always obtain advice from the regulatory authority about the storage, handling and use of these substances.



CLASS 8—CORROSIVE SUBSTANCES		CLASS 8—CORROSIVE SUBSTANCES	
Placarding	Manifest	Class & Packing Group (PG)	
50 L/kg	500 L/kg	Class 8 PG I	
250 L/kg	2,500 L/kg	Class 8 PG II	
1,000L/kg	10,000 L/kg	Class 8 PG III (includes Batteries filled with acid)	



CLASS 9—MISCELLANEOUS (INCLUDES DRY ICE)		CLASS 9—MISCELLANEOUS (INCLUDES DRY ICE)	
Placarding	Manifest	Class & Packing Group (PG)	
1,000 L/kg	10,000 L/kg	Class 9 PG II	
5,000 L/kg	10,000 L/kg	Class 9 PG III	
Mixed PG's below Placarding Quantity Each			
5,000 L/kg	10,000 L/kg		

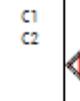


MIXED CLASSES (IF YOU HAVE MORE THAN ONE CLASS/TYPE OF DANGEROUS GOODS)		MIXED CLASSES (IF YOU HAVE MORE THAN ONE CLASS/TYPE OF DANGEROUS GOODS)	
Mixed Packing Groups below Placarding Quantity			
Placarding	Manifest		
2,000 L/kg	10,000 L/kg		

6. PLACARDING AND MANIFEST QUANTITIES OF DANGEROUS GOODS STORAGE AND HANDLING

Care should be taken to ensure that appropriate separation by distance and/or spill collection is maintained for minor quantities. Always refer to the MSDS for further incompatibility information.

NOTE: Class  1  6.2  7 are subject to discrete regulation and professional advice should be obtained.

Class						C1 C2								
	Yes	Yes	3m	5m	5m	5m	5m	No	5m	No	No	5m	5m	3m
	Yes	Yes	Yes	3m	3m	3m	3m	5m	3m	3m	5m	3m	3m	3m
	3m	Yes	Yes	5m	5m	3m	3m	5m	3m	3m	5m	3m	3m	3m
	5m	3m	5m	Yes	5m	5m	5m	5m	5m	5m	5m	5m	5m	5m
	5m	3m	5m	5m	Yes	Yes	5m	5m	5m	No	No	5m	3m	3m
C1 C2	5m	3m	5m	5m	Yes	Yes	3m	5m	5m	No	No	5m	3m	3m
	5m	3m	5m	5m	5m	3m	Yes	5m	5m	No	No	5m	3m	3m
	No	5m	5m	5m	5m	5m	5m	Yes	5m	No	No	5m	3m	3m
	5m	4m	3m	5m	5m	5m	5m	No	Yes	No	No	5m	5m	3m
	No	4m	3m	5m	No	No	No	No	No	Yes	5m	5m	5m	5m
	No	5m	5m	5m	No	No	No	No	No	No	Yes	No	5m	5m
	5m	3m	3m	5m	5m	4m	5m	5m	5m	5m	No	Yes	5m	3m
	5m	3m	3m	5m	3m	3m	3m	3m	5m	5m	5m	5m	Yes	3m
	3m	3m	3m	5m	3m	3m	3m	3m	3m	5m	5m	3m	3m	Yes

Last Revised Mar 2013. This information is subject to change— check with your local WorkCover authority website.

6. PLACARDING AND MANIFEST QUANTITIES OF DANGEROUS GOODS STORAGE AND HANDLING



LEGEND

All states have Regulations and Codes of Practice for risk control of dangerous goods. Australian and New Zealand Standards provide technical advice for construction, fire resistance, separation and segregation, and spill control for stores, spaces and bulk facilities. The Australian Dangerous Goods Code for Transport of Dangerous Goods by Road and Rail should be used as a guide only to separation and segregation for storage and handling. Segregation protocols for transport may differ.

This compatibility guide generally reflects requirements for dangerous goods in excess of minor quantities – notwithstanding it is sensible practice to observe separation and segregation for all quantities. This is a risk assessment (likelihood and consequence) issue.

Yes

Most like classes can obviously be stored together. However care must be taken with Class 8 Corrosives. There are no sub classes and the class consists of both acids and alkalis some of which are incompatible or may react dangerously – always refer to the MSDS.

3m

Typically these classes are to be separated by at least 3 metres and sometimes need separate spill control (refer to MSDS). The intervening space may be used for compatible non-dangerous goods. Aisle space is to be adequate.

5m

Typically these classes are to be separated by at least 5 metres and sometimes need separate spill control (refer to MSDS). The intervening space may be used for compatible non-dangerous goods. Aisle space is to be adequate.

No

These classes are not to be stored in the same room or space in rooms or spaces attached to each other (refer to MSDS – some may even be prohibited). Any attached room or space will typically be fire and explosion rated.



7. GUIDANCE NOTE AS/NZS STANDARDS THAT MAY APPLY

<p>AS/NZS Standards that may be incorporated into Dangerous Goods Storage and Handling Regulations include:</p> <ul style="list-style-type: none"> AS/NZS 1596: The Storage and handling of LPGas AS 1894: The Storage and handling on Non-Flammable Cryogenic and Refrigerated Liquids AS2022: Anhydrous Ammonia – Storage and Handling AS/NZS 2927: Storage and Handling of Liquefied Chlorine Gas AS 1940: The Storage and Handling of Flammable and Combustible Liquids AS 2714: The Storage and Handling of Hazardous Chemical Materials – Class 5.2 substances (organic peroxides) AS 4326: The Storage and Handling of Oxidizing Agents AS 4332: The Storage and Handling of Gases in Cylinders AS/NZS 4452: The Storage and Handling of Toxic Substances AS/NZS 3833: The Storage and Handling of Mixed Classes of Dangerous Goods, in Packages and Intermediate Bulk Containers <p>The following Elements are relatively common across the standards and regulations:</p>
<p>Operational and Personnel Safety</p> <ul style="list-style-type: none"> Entry cannot be made without supervision. The site must have appropriate security for dangerous goods, plant, equipment and materials and other assets <i>"Visitors, contractors, personnel and other persons (including those from regulatory authorities) whose duties require their entry into a restricted area should, wherever practicable, be accompanied by staff or before entry be given a written list of hazards/precautions (expect for emergency authorities)".</i>
<p>Clear Access/Housekeeping</p> <ul style="list-style-type: none"> Housekeeping, regular inspection and recording shall be implemented. Particular attention is to be paid to gas storages, walk-ways, all access paths, unloading areas
<p>Inspection of Plant and Equipment – Construction and Maintenance</p> <ul style="list-style-type: none"> Regular inspection and recording routines are to be applied to Dangerous Goods stores to harmonise with Plant Safety and dangerous goods requirements Work, except for routine non-hazardous tasks, in restricted areas (dangerous goods areas are restricted) are to be subject to an
<p>Personnel Training</p> <ul style="list-style-type: none"> Training in workplace substances is to be provided to personnel
<p>Signage and Placarding</p> <ul style="list-style-type: none"> Signage and placarding is to be provided appropriately
<p>Management of Leaks, Spills and Environment</p> <ul style="list-style-type: none"> Spill control must be effective: <ul style="list-style-type: none"> Absorbent material Resealable waste recovery bins for spills Respiratory protection
<p>Fire Protection</p> <ul style="list-style-type: none"> A block plan of fire protection should be available Fire protection to be under a maintenance contract Maintenance contracts shall ensure compliance with the inspection requirements for: <ul style="list-style-type: none"> Extinguishers AS 1851 Part 1 Maintenance of Fire Protection Equipment, Portable fire extinguishers and fire blankets Hose reels AS 1851 Part 2, Maintenance of Fire Protection Equipment, Fire hose reels Sprinklers AS 1851 Part 3, Maintenance of Fire Protection Equipment, Automatic fire sprinkler systems Hydrants AS 1851 Part 4, Maintenance of Fire Protection Equipment, Fire hydrant installations Monitor contract carefully Regularly inspect performance (should be Wardens responsibility) The Fire Protection must be compatible and capable of being used without adoption by the relevant States' Fire Authority Advise from the Fire Authority may need to be obtained

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Product Stewardship