Appendix A – Hazardous chemicals – placard and manifest quantities information

(Refer to the NSW Workplace Health and Safety Regulation 2011, Schedule 11)

Item	Description of hazardous chemical		Equivalent dangerous goods class/ division/packing group (Note 1)	Placard quantity	Placard to display (Note 2)	Manifest quantity
	GHS hazard class	GHS hazard type/category				
1	Flammable gases	Category 1	2.1 (except aerosols)	200L		5000L
2	Gases under pressure	with acute toxicity, categories 1, 2, 3 or 4 Note – Category 4 only up to LC50 of 5000 ppmV	2.3	50L		500L
3		with skin corrosion categories 1A, 1B or 1C	2.3/8	50L		500L
4		Aerosols	2.1 or 2.2	5000L	 If any 2.1 present, else 2.2 (green class label) shown below	10,000L
5		Not specified elsewhere in this table	2.2 (except aerosols) or 2.2/5.1 (oxidizing gas)	1000L	 or	10,000L

Item	Description of hazardous chemical		Equivalent dangerous goods class/ division/packing group (Note 1)	Placard quantity	Placard to display (Note 2)	Manifest quantity
	GHS hazard class	GHS hazard type/category				
6	Flammable liquids	Category 1	3 PG I	50L		500L
7		Category 2	3 PG II	250L		2500L
8		Category 3	3 PG III	1000L		10,000L
9		Any mix of chemicals from items 6 – 8 where none of the items exceeds the quantity for placards or manifests on their own	3	1000L		10,000L
10		Category 4	Combustible Liquids (flash point < 93°C)	10,000 L (Note 3)	COMBUSTIBLE LIQUID	100,000 L (Note 3)
11	Self-reactive substances	Type A	Goods Too Dangerous To Be Transported (GTDTBT)	5kg or 5L		50 kg or L
12		Type B	4.1	50kg or L		500kg or L
13		Type C – F	4.1	250kg or L		2500kg or L
14	Flammable solids	Category 1	4.1 PG II	250kg		2500kg
15		Category 2	4.1 PG III	1000kg		10,000kg
16		Any mix of chemicals from items 12 – 15 where none of the items exceeds the quantity for placards or manifests on their own	4.1	1000kg or L		10,000kg or L
17	Pyrophoric liquids and pyrophoric solids	Category 1	4.2 PG I	50kg or L		500kg or L
18	Self heating substances and mixtures	Category 1	4.2 PG II	250kg or L		2500kg or L
19		Category 2	4.2 PG III	1000kg or L		10,000kg or L

Item	Description of hazardous chemical		Equivalent dangerous goods class/ division/packing group (Note 1)	Placard quantity	Placard to display (Note 2)	Manifest quantity
	GHS hazard class	GHS hazard type/category				
20		Any mix of chemicals from items 17 – 19 where none of the items exceeds the quantity for placards or manifests on their own	4.2	1000kg or L		10,000kg or L
21	Substances which in contact with water emit flammable gas	Category 1	4.3 PG I	50kg or L		500kg or L
22		Category 2	4.3 PG II	250kg or L		2500kg or L
23		Category 3	4.3 PG III	1000kg or L		10,000kg or L
24		Any mix of chemicals from items 21 – 23 where none of the items exceeds the quantity for placards or manifests on their own	4.3	1000kg or L		10,000kg or L
25	Oxidising liquids and Oxidising solids	Category 1	5.1 PG I	50kg or L		500kg or L
26		Category 2	5.1 PG II	250 kg or L		2500kg or L
27		Category 3	5.1 PG III	1000 kg or L		10,000kg or L
28		Any mix of chemicals from items 25 – 27 where none of the items exceeds the quantity for placards or manifests on their own	5.1	1000kg or L		10,000kg or L

Item	Description of hazardous chemical		Equivalent dangerous goods class/ division/packing group (Note 1)	Placard quantity	Placard to display (Note 2)	Manifest quantity
	GHS hazard class	GHS hazard type/category				
29	Organic peroxides	Type A	GTDTBT	5kg or L		50kg or L
30		Type B	5.2	50kg or L		500kg or L
31		Type C – F	5.2	250kg or L		2500kg or L
32		Any mix of chemicals from items 30–31 where none of the items exceeds the quantity for placards or manifests on their own	5.2	250kg or L		2500kg or L
33	Acute Toxicity	Category 1	6.1 PG I	50kg or L		500kg or L
34		Category 2	6.1 PG II	250kg or L		2500kg or L
35		Category 3	6.1 PG III	1000kg or L		10,000kg or L
36		Any mix of chemicals from items 33–35 where none of the items exceeds the quantity for placards or manifests on their own	6.1	1000kg or L		10,000kg or L
37	Skin corrosion	Category 1A	8 PG I	50kg or L		500kg or L
38		Category 1B	8 PG II	250 kg or L		2,500kg or L
39		Category 1C	8 PG III	1000kg or L		10,000kg or L
40	Corrosive to metals	Category 1	8 PG III	1000kg or L		10,000kg or L
41		Any mix of chemicals from items 37–40 where none of the items exceeds the quantity for placards or manifests on their own	8	1000kg or L		10,000kg or L

Item	Description of hazardous chemical		Equivalent dangerous goods class/ division/packing group (Note 1)	Placard quantity	Placard to display (Note 2)	Manifest quantity
	GHS hazard class	GHS hazard type/category				
42	Unstable explosives		GTDTBT	5kg or 5L		50kg or L
43		Any mix of chemicals from items 11, 29 and 42 where none of the items exceeds the quantity for placards or manifests on their own	GTDTBT	5kg or 5L		50kg or L

Note 1. This information is provided as a guide only. Confirm this information when the manufacturer's or supplier's SDS indicates the GHS hazard class and category for the particular hazardous chemical or mixture based on the material properties.

Note 2. The placard pictured in 'Placard to display' column is the placard which should be displayed on the entrance to the packaged goods storage area as required by Regulation 350 and Schedules 11 and 13 of the Work Health and Safety Regulations. The combustible liquid placard for Flammable Liquids Category 4 is for these goods in isolation from other flammable liquids (Categories 1–3). For outer warning placard and placards to be displayed on bulk containers refer to Schedule 13 of the WHS Regulation.

Note 3. For the purposes of this table, if a flammable liquid category 4 is used, handled or stored in the same spill compound as 1 or more flammable liquids of categories 1, 2 or 3, the total quantity of flammable liquids categories 1, 2 or 3 must be determined as if the flammable liquid category 4 had the same classification as the flammable liquid in the spill compound with the lowest flash point – eg For placarding and manifest purposes, a spill compound containing 1000L of flammable liquid category 1 and 1000L of flammable liquid category 4 is considered to contain 2000L of flammable liquid category 1

Appendix B – Descriptors of bulk chemical storage types

Storage Type	Description/comments
Storage area	
Warehouse	A structure where goods are stored
Refrigeration plant	A plant that uses gas or liquid to remove heat
Room inside a building	A room designed for storing hazardous chemicals
Shipping container	A shipping container including an ISO (International Standards Organisation) container that has been designed or modified to store hazardous chemicals
Underground cavern	A sealed and deep underground void for storage of hazardous chemicals including liquefied gases
Refrigerated shipping container	Shipping containers with a refrigeration device to store hazardous chemicals at low temperatures
Area-empty uncleaned tanks	A storage area for tanks that have not been tested and declared free from hazardous chemicals
Stock pile	Loose material not in a container
Bulk containers	
Above ground tank (AGT)	Above ground container, other than a package or IBC, intended for the storage of hazardous chemicals in the form of a gas or a liquid in bulk. Includes fittings, closures and any other equipment that forms part of the container. If used for flammable liquids it is a tank described in AS 1692 and defined in AS 1940.
Underground storage tank (UST)	An underground, partially or fully mounded tank used to store hazardous chemicals
Portable tanks	Portable tanks including ISO tanks. It Includes self-bunded or double walled/skinned tanks
Silo	A predominantly vertical structure proofed against weather and vermin typically for storing grain
Intermediate bulk container (IBC)	A rigid or flexible portable packaging for the transport or storage of hazardous chemicals as defined in the ADG Code 7.3
Storage depots/packaged store areas	
Cylinder store	Storage area for cylinders containing hazardous chemicals where cylinders are defined in the relevant Australian Standard.
Cylinders in use	Cylinders of hazardous chemicals connected for use
Decanting cylinders	Supply cylinders used to fill smaller cylinders on site
Cabinets: flammable liquids	Cabinets purpose built or modified to store flammable liquids
Cabinets: corrosives	Cabinets purpose built or modified to store corrosives
Cabinets: toxics	Cabinets purpose built or modified to store toxics
Cabinets: organic peroxides	Cabinets purpose built or modified to store organic peroxides
Drum store	An area for storing drums of hazardous chemicals
Non-roofed store	An outdoor store without a roof
In Process/manufacture	
Process piping	Pipework that is used to convey hazardous chemicals as part of a process
Process vessel	A vessel used to complete a process involving hazardous chemicals, such as separating a product or substance, combining two or more products, or breaking a product down