



Dangerous Goods, Substances and Chemicals Compliance Chart

CREATED BY: 
**WHOLESALE
SAFETY STORAGE**
Australia

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About this Resource:

The use of chemicals plays an important part in our daily life, and various industries use these chemicals in the production of other materials or in preparation to be used in their combined form or as reagents. It's no question that these substances are hazardous in nature.

The characteristics of these chemicals need to be properly identified, along with describing the possible harm they can do if handled incorrectly.

To help prevent untoward accidents or incidents from happening, the following document provide these details as well as specify which compliant storage devices to use to properly store these chemicals for maximum safety and security.

Classification List



The following list contains the most commonly used dangerous goods and substances and the Wholesale Safety Storage Australia Products to store and transport them safely; in a manner that is compliant Australian Safety Standards.



Class 1
Explosives



Class 2
Gases



Class 3
Flammable Liquid



Class 4
Flammable Solids



Class 5
Oxidising Agents



Class 5.2
Organic Peroxide



Class 6
Toxic
Substances



Class 8
Corrosive
Substances



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Class 2 Gases

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ACETYLENE

Class 2

Extremely flammable gas that may explode if heated.

May displace oxygen and cause rapid suffocation, and may form explosive mixture with air.

Compliant Product of Use

- AEROSOL STORAGE CAGE
- LPG GAS CYLINDER CAGES
- FORKLIFT GAS CYLINDER CAGE
- G/G2 HIGH PRESSURE GAS CYLINDER CAGE
- COMBINATION GAS CYLINDER CAGE

AEROSOLS

Class 2

Spray paints, Insect bombs, lubricants, hairsprays contains compressed gasses that makes them hazardous and explode if packed incorrectly

Compliant Product of Use

- AEROSOL STORAGE CAGE

BUTANE

Class 2

Extremely flammable gas. May irritate skin and an eye irritant. Also classified as acutely toxic.

Compliant Product of Use

- AEROSOL STORAGE CAGE
- LPG GAS CYLINDER CAGES
- FORKLIFT GAS CYLINDER CAGE
- G/G2 HIGH PRESSURE GAS CYLINDER CAGE
- COMBINATION GAS CYLINDER CAGE





CARBON DIOXIDE / ETHYLENE OXIDE MIXTURE

Class 2

Laboratory use, calibration gas, and chemical synthesis. Extremely flammable and may cause skin, eye and respiratory irritation. Gas in canister is under pressure and may explode when heated.

Toxic if inhaled, can cause genetic defects, cancer. And may react explosively even in the absence of air.

Compliant Product of Use

- AEROSOL STORAGE CAGE
- LPG GAS CYLINDER CAGES
- FORKLIFT GAS CYLINDER CAGE
- G/G2 HIGH PRESSURE GAS CYLINDER CAGE
- COMBINATION GAS CYLINDER CAGE

LIGHTERS

Class 2

Extremely flammable gas. Contains gas under pressure; may explode if heated.

Compliant Product of Use

- AEROSOL STORAGE CAGE





CHLORINE

Class 2

May cause or intensify fire. It is also an oxidiser. If placed under pressure may explode if heated. Can cause severe skin burns and eye damage and can be fatal if inhaled. Chlorine is very toxic to aquatic life.

Compliant Product of Use

- AEROSOL STORAGE CAGE
- LPG GAS CYLINDER CAGES
- FORKLIFT GAS CYLINDER CAGE
- G/G2 HIGH PRESSURE GAS CYLINDER CAGE
- COMBINATION GAS CYLINDER CAGE

COMPRESSED HYDROGEN

Class 2

Extremely flammable gas that may explode if heated. May displace oxygen and cause rapid suffocation, and may form explosive mixture with air.

Compliant Product of Use

- AEROSOL STORAGE CAGE
- LPG GAS CYLINDER CAGES
- FORKLIFT GAS CYLINDER CAGE
- G/G2 HIGH PRESSURE GAS CYLINDER CAGE
- COMBINATION GAS CYLINDER CAGE





ETHANE

Class 2

Exposure can cause headache, nausea, vomiting, dizziness and lightheadedness. High levels can cause suffocation from lack of oxygen. Liquid ethane can cause frostbite.

The substance is highly flammable and a dangerous fire hazard.

Compliant Product of Use

- AEROSOL STORAGE CAGE
- LPG GAS CYLINDER CAGES
- FORKLIFT GAS CYLINDER CAGE
- G/G2 HIGH PRESSURE GAS CYLINDER CAGE
- COMBINATION GAS CYLINDER CAGE

FLAMMABLE GAS

Class 2

Extremely flammable gas. May irritate skin and an eye irritant. Also classified as acutely toxic.

Compliant Product of Use

- AEROSOL STORAGE CAGE
- LPG GAS CYLINDER CAGES
- FORKLIFT GAS CYLINDER CAGE
- G/G2 HIGH PRESSURE GAS CYLINDER CAGE
- COMBINATION GAS CYLINDER CAGE





METHANE

Class 2

Fire exposure may cause containers to rupture and explode. Incomplete combustion forms carbon monoxide. High concentration may cause asphyxiation.

Compliant Product of Use

- AEROSOL STORAGE CAGE
- LPG GAS CYLINDER CAGES
- FORKLIFT GAS CYLINDER CAGE
- G/G2 HIGH PRESSURE GAS CYLINDER CAGE
- COMBINATION GAS CYLINDER CAGE

PROPANE (LPG)

Class 2

Is a highly flammable gas may explode if heated. Fast oxygen displacement can cause rapid suffocation and may form explosive mixtures with air.

Compliant Product of Use

- LPG GAS CYLINDER CAGES
- FORKLIFT GAS CYLINDER CAGE
- G/G2 HIGH PRESSURE GAS CYLINDER CAGE
- COMBINATION GAS CYLINDER CAGE





Class 3

Flammable

Liquid

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ACETONE

Class 3

Highly Flammable liquid and vapour and can cause serious eye irritation. May cause drowsiness or dizziness

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES

ALCOHOL

Class 3

Can irritate eyes, skin, nose and cause drowsiness and headache. Exposure to high concentration may cause respiratory tract irritation, lack of motor coordination, loss of consciousness.

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES

BENZENE

Class 3

Can irritate eyes, skin, nose and cause drowsiness and headache. Exposure to high concentration may cause respiratory tract irritation, lack of motor coordination, loss of consciousness.

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES





ETHANOL

Class 3

Can irritate eyes, skin, nose and cause drowsiness and headache. Exposure to high concentration may cause respiratory tract irritation, lack of motor coordination, loss of consciousness.

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES

GASOLINE /PETROL

Class 3

Highly Flammable substance with low flashpoint. Vapour and can cause serious eye irritation. Toxic when accidentally ingested and may cause drowsiness or dizziness.

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES

KEROSENE

Class 3

Flammable Liquid and vapour. Causes skin irritation. Fatal if swallowed and enters airways causing drowsiness and dizziness. Toxic to aquatic life with long lasting effects.

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES





PAINT AND PAINT REMOVERS

Class 3

Highly flammable materials. Toxic and harmful if swallowed or comes into contact with skin. Can cause burns and eye damage and/or cause allergic skin reaction.

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES

THINNERS

Class 3

Flammable liquid and vapour. Can cause serious eye irritation. May cause drowsiness or dizziness. Can be harmful when it comes into contact with skin or inhaled. Harmful to aquatic life.

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES





VARNISH AND VARNISH REMOVERS

Class 3

The liquid material and its vapour is highly flammable and can be harmful if swallowed. Can cause serious eye irritation and may cause an allergic skin reaction.

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES

METHANOL

Class 3, (Subsidiary Hazard Class 6.1)

Its liquid form and vapour is highly flammable. Toxic if swallowed, gets in contact with skin and inhaled. Can cause damage to organs

Compliant Product of Use

- INDOOR FLAMMABLE LIQUIDS CABINETS
- OUTDOOR DANGEROUS GOODS STORES





Class 4

Flammable

Solids

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ACTIVATED CARBON

Class 4

Flammable and non-flammable solids that can spontaneously combust and/or substances when it comes into contact with water can emit flammable and/or toxic gasses.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS

ALKALI METALS

Class 4

Flammable and non-flammable solids that can spontaneously combust and/or substances when it comes into contact with water can emit flammable and/or toxic gasses.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS

ALUMINIUM PHOSPHIDE

Class 4

Not flammable but highly reactive when in contact with water and incompatible materials which may generate hydrogen phosphide gas which is highly toxic and extremely flammable.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS





CELLULOSE NITRATE PRODUCTS

Class 4

Extremely harmful and may form explosive peroxides.
Extremely flammable in liquid form and vapour.

Repeated exposure may cause skin dryness or cracking.
Harmful if swallowed and can cause drowsiness or dizziness. Highly toxic to aquatic life with long lasting effects.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS

MAGNESIUM POWDER

Class 4

Magnesium powder is highly flammable that ignites readily. The material is hard to extinguish once ignited and it reacts with water to create hydrogen gas and generate heat.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS





PHOSPHORUS

Class 4

White or yellow phosphorus is highly flammable and reactive to oxygen. It is a dangerous fire and explosion hazard and may spontaneously ignite on contact with damp surfaces, including water or skin.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS

SODIUM

Class 4

Reacts violently with water and emits flammable gas. Can cause skin corrosion and irritation.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS

SODIUM SULFITE/ SULPHIDE

Class 4

May cause skin, eye, gastrointestinal, and respiratory tract irritation. Cause nausea, vomiting and diarrhea.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS





SULPHUR

Class 4

Prolonged skin contact may result in irritation due to abrasive action. It's molten form may cause 1st, 2nd, or 3rd degree thermal burns.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS

ZINC POWDER

Class 4

Flammable. Fine dust dispersed in air may ignite. Spontaneously flammable in air. Water contact releases extremely flammable gasses and vapours.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS

ZIRCONIUM POWDER

Class 4

May ignite spontaneously and burn with explosive violence. Can be ignited by static electricity. Small amount of moisture may promote ignition. Burns despite immersion in water with greater intensity than in air.

Compliant Product of Use

- INDOOR FLAMMABLE SOLIDS CABINETS





Class 5

Oxidising

Agents

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BROMATES

Class 5

Is an oxidiser and may intensify fire. Can be harmful if swallowed. Causes skin irritation and serious eye irritation. May also cause respiratory irritation.

Compliant Product of Use

- INDOOR OXIDISING AGENT STORAGE

CHLORATES

Class 5

Used in explosives and also as pesticide. Acute exposure could be toxic and limit the blood's ability to absorb oxygen which may lead to kidney failure.

Compliant Product of Use

- INDOOR OXIDISING AGENT STORAGE

PERCHLORATES

Class 5

Highly Corrosive and oxidising. Can intensify fire and cause severe skin burns and eye damage.

Compliant Product of Use

- INDOOR OXIDISING AGENT STORAGE





PERMANGANATE

Class 5

Dangerous when inhaled. Skin contact can cause irritation and burns and can cause eye damage.

Compliant Product of Use

- INDOOR OXIDISING AGENT STORAGE

POTASSIUM

PERMANGANATE

Class 5

Intensifies fire and an oxidiser. Can be harmful if swallowed and cause severe burns and eye damage. May also cause damage to an unborn child. Can cause damage to organs, particularly the brain on repeated exposure and inhalation.

Compliant Product of Use

- INDOOR OXIDISING AGENT STORAGE





NITRATES

Class 5.1

Hazardous oxidant and can intensify fire. Harmful if swallowed and can cause serious eye irritation. Can cause explosions if heated under confinement. Contact with acid can form toxic gas.

Compliant Product of Use

- INDOOR OXIDISING AGENT STORAGE





Class 6

Toxic

Substances

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ANTI-KNOCK FUEL ADDITIVE

Class 6

Are Toxic Substances and can be flammable when vapour mixes with air. The material can react fiercely with oxidants.

Compliant Product of Use

- INDOOR TOXIC SUBSTANCE STORAGE

ARSENIC

Class 6

Highly toxic and hazardous to human health.

Compliant Product of Use

- INDOOR TOXIC SUBSTANCE STORAGE

BACTERIA

Class 6

Can be infectious and may contain pathogens harmful to human health.

Compliant Product of Use

- INDOOR TOXIC SUBSTANCE STORAGE





CLINICAL WASTE

Class 6

These substances are liable either to cause death or serious injury or to harm human health if swallowed or inhaled or by skin contact. They may also contain pathogens that can cause disease in humans or animals.

Compliant Product of Use

- INDOOR TOXIC SUBSTANCE STORAGE

FUNGICIDES

Class 6

Can cause allergic skin reaction and toxic if inhaled. Fungicides are also toxic to aquatic life with long lasting effects.

Compliant Product of Use

- INDOOR TOXIC SUBSTANCE STORAGE

HYDROGEN CYANIDE (FORMONITRILE)

Class 6

May cause frostbite injuries when it comes into contact with skin and eyes and may cause other physical injuries arising from sudden or uncontrolled gas release.

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- INDOOR TOXIC SUBSTANCE STORAGE





Class 8

Corrosive

Substances

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ACETIC ACID

Class 8

Flammable liquid and vapour that can cause severe skin burns and eye damage.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

AMMONIUM SOLUTION

Class 8

May be corrosive to metals. Can cause severe skin burns and eye damage and cause respiratory irritation.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

BATTERIES (WET CELL)

Class 8

May be corrosive to metals. Can cause severe skin burns and serious eye damage and cause respiratory irritation. Toxic if inhaled.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS
- TRANSPORTABLE BATTERY CAGE





BATTERY FLUID

Class 8

May be corrosive to metals. Can cause severe skin burns and serious eye damage and cause respiratory irritation. Toxic if inhaled.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

BROMINE OR BROMINE SOLUTION

Class 8

Causes skin irritation and serious eye irritation. Toxic if inhaled.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

HYDROCHLORIC ACID

Class 8

Highly corrosive to metals and can cause irreversible skin and eye damage. Can also cause respiratory irritation.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS





HYDROFLUORIC ACID

Class 8

Fatal if inhaled and swallowed. It can cause severe skin burns and eye damage.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

MERCURY

Class 8

Fatal if inhaled. Can damage fertility and damage to an unborn child. Prolonged and repeated exposure causes damage to organs. And very toxic to aquatic life with long lasting effects.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

PHOSPHORIC ACID

Class 8

May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage and may cause irreversible damage to the skin.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS





POTASSIUM HYDROXIDE (CAUSTIC POTASH)

Class 8

Can be corrosive to metals. Harmful if swallowed and can cause severe skin burns and eye damage.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

RUST REMOVERS OR PREVENTERS

Class 8

An extremely flammable aerosol container may burst when heated. Harmful if swallowed or comes in contact with skin can cause serious skin and eye irritation. Can also cause drowsiness or dizziness.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

SULFURIC ACID

Class 8

May be corrosive to metals and cause severe skin burns and serious eye damage.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS





SODIUM HYDROXIDE (CAUSTIC SODA)

Class 8

Will cause severe irritation and burns. It is corrosive and can cause permanent eye damage and blindness.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

SODIUM HYPOCHLORITE (DISINFECTANT)

Class 8

The substance or its mixture is corrosive to metals. Can cause skin corrosion and irritation. May cause serious eye damage and eye irritation. It is hazardous to the aquatic environment.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS

ZINC CHLORIDE

Class 8

Can be harmful if swallowed. Contact causes severe skin burns, eye damage and may cause respiratory irritation.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS





NITRIC ACID

Class 8, (subsidiary Hazard Class 5.1)

Highly Corrosive and oxidising. Can intensify fire and cause severe skin burns and eye damage.

Compliant Product of Use

- INDOOR CORROSIVE CHEMICAL STORAGE CABINETS





Wholesale Safety Australia give 100% guarantee in meeting Australian Safety Standards on all our supplied products. We are an authorised distributor and most reputable health and safety equipment manufacturers in Australia.

We are proud to say 100% of our products are manufactured right here in Australia, for Australian conditions. All of our products meet Australian Standards, and we stand by that with a 100% guarantee. We are a 100% owned and operated local business, supporting Australian manufacturing.

Please don't hesitate to contact us for any queries or support you might have regarding our products.



Got Questions?

Reach out to our team at

 office@wssa.com.au

 1300 903 933

 wssa.com.au

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