

A GUIDE TO HAZARDOUS SUBSTANCES



HAZARDOUS SUBSTANCES - MITIGATE THE RISK

Working with hazardous substances poses serious health and safety risks if proper precautions are not followed.

These substances, including chemicals, fuels, gases, and corrosive and toxic agents, can cause poisoning, burns, respiratory issues, and sometimes death. Failing to contain or segregate incompatible materials can increase the risk of spill incidents, personal exposure, and environmental harm. Following safety protocols, including using protective equipment and ensuring safe storage, is crucial to minimising risks and maintaining a safer working environment.

COMMON HAZARDOUS SUBSTANCES

Flammable Materials:

Flammable liquids can easily ignite when exposed to heat, sparks, or flames. These materials pose serious fire and explosion risks. Examples include petrol, oils, and solvents. Fire can spread quickly, causing significant damage to people and property.

Lithium-Ion Batteries:

Lithium-ion (Li-ion) batteries are commonly used in power tools and other industrial equipment but can be very hazardous if damaged or overcharged. Short-circuiting or overheating can cause thermal runaway, leading to devastating fires or explosions.

Corrosive Liquids:

Corrosive liquids, like acids and alkalis, can severely damage tissue and materials. Contact can cause burns or eye damage, while inhalation of fumes can seriously harm the respiratory system.

Flammable Gases:

Flammable gases, such as hydrogen, methane, and propane, can form explosive mixtures with air. They pose a serious risk of fire or explosion, especially if mishandled, held in confined spaces or when leaks occur.

GET THE RIGHT SOLUTION

Follow our easy guide to ensure that you are using best practice processes to keep your team and customers safe. NOTE: All information is to be treated as guidance

COMMON DANGEROUS GOODS



MANAGING HAZARDS



FLAMMABLE GASES



LI-ION BATTERIES



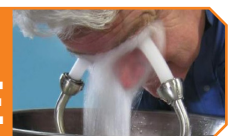
CORROSIVE SUBSTANCES



SPILL SOLUTIONS



EMERGENCY SHOWERS & SIGNAGE



MANAGING HAZARDOUS SUBSTANCES IS A SERIOUS RESPONSIBILITY

We understand that managing your hazardous substances can be a seriously daunting task. If you're new to the role or have been given the role of improving this area of the workplace, this guide will help you navigate the key steps in the process.



Industries* that use hazardous substances include but are not limited to:

- Chemical manufacture, application and bulk storage
- Electrical and electronic works, power generation and transmission
- Explosives and ordnances production, storage and use
- Metal extraction, refining and reprocessing, storage and use
- Mineral extraction, refining and reprocessing, storage and use
- Vehicle refuelling, service and repair
- Cemeteries and waste recycling, treatment and disposal

*Source Hazardous Activities and Industries List (HAIL) Ministry for the Environment www.environment.govt.nz Published 29 April 2021

LET'S START AT THE BEGINNING

Storing hazardous substances safely is an important part of protecting you and the environment that you work in. This includes storing only what you need, ensuring that incompatible substances are not stored together, and that decanted substances are stored in the correct type of container and labelled accordingly.

KNOWING YOUR LIMITS

Keep the amount of hazardous substances on site to a practical minimum. This will make it easier to manage what you have and will likely reduce your compliance costs. Keep containers closed whenever possible to keep vapours contained, and to limit the chance of a spill incident.

SIGNAGE AND LABELLING

Depending on the types and amounts of hazardous substances at your workplace, you may need safety signage to warn employees, contractors, and visitors to your site that these substances are present. On the containers that hold these substances, the labels must be legible and accurately reflect the contents inside.

PROSAFE

DO YOU NEED CUSTOMISED SIGNS?

We can create safety signs to meet your specific requirements



We can take care of customised signage. Scan this QR code. nzsafetyblackwoods.co.nz



If you require a specialised template contact us on 0800 660 660 or custservice@nzsafetyblackwoods.co.nz



KNOWING HOW TO STORE YOUR SUBSTANCES

First, take a look at the safety data sheet for each substance, sometimes referred to the MSDS or SDS. These are mandatory for each hazardous substance that you use, store or handle at your workplace and are to be provided by the substance manufacturer or distributor. The SDS will outline the hazards specific to that substance, tell you how to store it safely and which other substances or materials it should be kept away from. Smaller amounts of flammable or corrosive substances can be stored in an approved storage cabinet. Larger amounts may have to be stored in purpose-built rooms indoors, or dedicated Dangerous Goods (DG) stores outdoors.

Many substances will require secondary containment – sometimes referred to as 'bundling' – over a certain storage threshold. There are a number of secondary containment options available. See page 8-9 for more details.

COMPLIANCE - IS CERTIFICATION REQUIRED?

If you have flammable, oxidising, toxic or corrosive substances at your workplace above certain quantities, you may need a location compliance certificate to certify that these substances are stored safely and according to the rules.

WHAT IS MEANT BY INCOMPATIBLE SUBSTANCES?

Not all hazardous substances can be located together safely. Different types of substances can cause a fire, explosion, or chemical reaction if they come into contact with each other. The SDS for each substance should detail what other substances needs to be kept separate from it.

TRANSFERRING OR DECANTING HAZARDOUS SUBSTANCES

Try and keep your hazardous substances in the containers or drums that they originally arrived in. These containers will be safe, suited to the product inside and labelled correctly. However, there will be times when you will need to decant these substances into smaller containers for ease of use, or to mix substances in process containers before using them. While these will seem like straight forward tasks, the associated risks need to be understood – which the relevant SDS will help determine.

Containers holding hazardous substances must be in sound condition and made of a material that is suitable for containing the substance for as long as it is required.



NZ Safety Blackwoods can take care of your Hazardous Substance signage requirements. See page 15.

COMMON DANGEROUS GOODS (DG)



CLASS #	CLASS	EXAMPLES	FOUND IN	INDUSTRIES
1	EXPLOSIVES		Detonators, blasting materials, ammunition, retail fireworks, Christmas crackers and party poppers	Mining and quarrying operations. Oil and gas industry and within civil construction
2.1	FLAMMABLE (Gas)	LPG, acetylene, and propane	Gas cylinders, aerosols; some fly sprays and spray paints	Engineering, workshops, and civil construction
2.2	NON-FLAMMABLE NON-TOXIC GAS	Compressed air, nitrogen, argon and helium	Gas cylinders, aerosols; some fly sprays and spray paints	Engineering workshops, construction and automotive repairs
3.1 A 3.1 B 3.1 C 3.1 D	FLAMMABLE (Liquid)	Petrol Acetone and ethanol P-xylene Diesel	Petrol Nail polish remover and hand sanitiser Products made with PET; bottles, containers and fabrics Diesel	Workshops, mechanics, and manufacturing plants
4.1	FLAMMABLE (Solid readily combustible)	Titanium hydride	Ceramics, pyrotechnics and sports equipment	
4.2	FLAMMABLE (Substance - spontaneously combustible)	White phosphorous, magnesium powder and aluminium powder	Fertilisers, cleaning compounds and ammunition	
4.3	FLAMMABLE (Solid - dangerous when wet)	Magnesium powder, calcium carbide, solid sodium, lithium and hydride	Glass, detergents and cleansers	Manufacturing plants, steel and metal cutting
5.1	OXIDISING AGENTS	Oxygen, hydrogen peroxide, sulfuric acid and potassium nitrate	Oxygen for medical purposes, bleaches, water purifiers and fertilisers	Healthcare, manufacturing plants, and water treatment plants
5.2	ORGANIC PEROXIDES	Epoxy resins, MEKP and benzoyl peroxide	Glass reinforced plastics, fibreglass, resin, polyester, and silicone products	Construction, automotive workshops, and transportation
6	TOXIC SUBSTANCES	Cyanides, phenols, cresols, pesticides, and lead compounds	Household cleaners, pesticides, biological samples and clinical wastes, and timber treatment chemicals	Agriculture, and laboratories
8	CORROSIVE SUBSTANCES	Sulphuric acid, sodium hydroxide and batteries	Cleaners and sanitisers	Food processing, manufacturing, healthcare, hospitality, and agriculture
9	EXOTOXICS	Pesticides, paints and cleaners	Agrichemicals	Rural industries, landscaping, and commercial growing

MITIGATING THE RISK OF FIRE



FLAMMABLE MATERIALS

Fires in the workplace can have devastating impacts, causing severe injury, loss of life, and extensive property damage. Uncontained flammable substances, such as fuels or gases, significantly increase the risk of rapid ignition, spreading fires, or even explosions. Beyond the immediate danger to personnel, fires disrupt operations, leading to costly downtime and potential loss of critical equipment or stock. The financial consequences can include insurance claims, legal liabilities, and regulatory fines. Additionally, the emotional toll on workers as well as the impacts to the immediate environment, can linger long after the fire is extinguished.

THE AS1940 STANDARD

Flammable liquids cannot be stored in any old cabinet and the AS 1940-2017 standard is the document referred to in legislation that governs the "Storage and handling of flammable and combustible liquids", which states the approved cabinet construction requirements. The key points are summarised as follows:

- The walls, floor, door and roof shall be double-walled sheet steel
- The inner base shall form a liquid-tight compound that is at least 150mm deep
- Cabinet doors shall be self-closing, close-fitting and latched at 2 or more points
- Any shelves shall be perforated to permit free air movement



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FLAMMABLE CABINETS

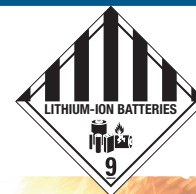
All cabinets featured below are suitable for Class 3 Flammable Liquids and meet the AS1940:2017 standard

- NZ designed and fabricated
- Double-wall, sheet steel construction
- 150mm high, in-built sump
- Built to the AS1940:2017 design requirements
- Self-closing doors

Size	Code
30L	467443
60L	467444
100L	467445
160L	467446
250L	467447
250L PLUS	467448



LITHIUM-ION BATTERIES



WHAT ARE THEY AND WHAT'S THE DANGER?

Lithium-ion batteries power our modern world. They're found in power tools, smartphones, laptops, electric vehicles (including e-scooters and e-bikes) and more. Their efficiency and reliability have revolutionised technology but behind their omnipresence, lies lesser-known facts and dangers.



However, there are steps you can take today reduce and potentially manage those risks:

Thermal Runaway:

Lithium-ion batteries are prone to a phenomenon known as thermal runaway. This is where one faulty cell, or an internal reaction, can rapidly spread across other cells, leading to increased temperatures, potentially causing the battery to explode.

Damage & mishandling:

Physical damage, manufacturing defects, or improper charging can trigger internal shorts, accelerating the risk of thermal runaway.

Environmental impact:

Improper disposal or recycling of these batteries can harm the environment due to the toxic chemicals and metals they contain.

Isolation & containment:

When storing multiple batteries, store them in a separate area. This will ensure they are isolated from external risks e.g. heat sources. This also works in reverse, containing the impact of a burning battery for as long as possible.

Temperature control:

Storing Lithium-ion batteries at moderate temperatures (around 15-25°C) helps maintain their stability. Extreme heat can affect the battery's performance and longevity, to the point where it can catch fire and explode.

Avoiding physical damage:

Store batteries in a way that prevents physical damage and compression, as this can compromise battery integrity and potentially lead to short circuits.

LITHIUM-ION BATTERY SAFETY CABINETS

All cabinets featured below are suitable for Lithium-ion battery storage



Ask about adding optional ventilation, alarm and in-cabinet charging systems

Size	Part Number
Mini	466993
Compact	466994
Standard	466995
Medium	466996
Large	466997
Extra Large	466998

FLAMMABLE GASES



GAS CYLINDER CABINETS

Suitable for Gas Cylinder storage and meet AS4332-2004 and AS/NZ1596:2008 design standards



Always locate cabinets at least 3 metres from heat sources



Indoor Use: Always locate cabinets 5 metres from heat sources

GAS - FLAMMABLE GASES CONTAINMENT

The contents of a gas cylinder store the energy that is compressed within and if the cylinder is weakened, this mechanical energy may be released violently, causing significant harm to people and property nearby. Ideally the cylinders should be located outdoors, in a dedicated gas store on a flat, concrete surface.

Keep Class 2.1, Class 2.2 (5.1) and Class 2.3 gases segregated from each other (as well as other DG's) by at least 3 metres.

- NZ designed and fabricated
- Large and small cylinder storage
- Side wall perforation supports ventilation requirements
- Removeable shelves
- Heavy duty locking system
- Adjustable feet for stability



Description	Part Number
Extra Small	466061
Small	466062
Medium	466063
Large	466064
Extra Large	466065

Forkliftable when empty

AEROSOL STORAGE CABINETS



Always locate cabinets at least 3 metres from heat sources

AEROSOLS - FLAMMABLE GASES CONTAINMENT

The critical thing when storing aerosol cans is that as a Class 2 DG, they cannot be stored inside the same cabinet as Class 3 Flammable Liquids.

- New Zealand designed and fabricated
- Projectile protection keeps people and property safe
- Side wall perforation supports ventilation requirements
- Removeable shelves
- Lockable to discourage theft or misuse

Capacity	Part Number
18 can	466056
36 can	466057
70 can	466058
140 can	466059
280 can	466060



CORROSIVE LIQUIDS

WHAT ARE THEY AND WHAT'S THE DANGER?

Corrosive liquids, like acids and alkalis, can severely damage tissue and materials. Contact can cause burns or eye damage, while inhalation of fumes can seriously harm the respiratory system.



CORROSIVE SUBSTANCES CABINETS

SAFELY CONTAINING CORROSIVE LIQUIDS

If not properly contained or disposed of, these liquids can also pose significant environmental risks. To prevent accidents, it is crucial to store corrosive liquids in secure, well-labelled containers, and storing them in designated locations away from incompatible substances.

- NZ designed and fabricated
- Self-closing, lockable doors
- Adjustable shelving
- Supplied with PVC spill trays
- Adjustable feet for stability

Size	Code
30L	467449
60L	467450
100L	467451
160L	467452
250L	467453
350L	467454



SECONDARY CONTAINMENT

WHEN IS A SECONDARY CONTAINMENT SYSTEM REQUIRED?

Minimum secondary containment capacity hazardous substances with flammable classification:

Container Size Categories	QUANTITY - TOTAL POOLING POTENTIAL (TPP) AT STORAGE LOCATION	
	Less than 5,000 Litres	Greater than or equal to 5,000 Litres
< 60 Litres	At least 50% TPP	2,500L or 25% TPP, whichever is greater
< 60 Litres and up to 450 Litres	At least 100% TPP	5,000L or 50% TPP, whichever is greater
> 450 Litres	At least 100% capacity of the largest container	5,000L or 50% TPP, whichever is greater

Minimum secondary containment capacity for classes 6, 8, 9 substances that are not flammable:

Container Size Categories	QUANTITY - TOTAL POOLING POTENTIAL (TPP) AT STORAGE LOCATION	
	Less than 20,000 Litres	Greater than or equal to 20,000 Litres
> 60 Litres	At least 25% TPP	5,000L or 5% TPP, whichever is greater
> 60 Litres and up to 450 Litres	At least 25% TPP or 110% of the largest container, whichever is greater	5,000L or 5% TPP, whichever is greater
> 450 Litres	At least 100% capacity of the largest container	

Secondary containment of oils:

HSNO CLASSIFICATION	TRIGGER QUANTITY
6.1A, 6.1B, 6.1C, 8.2A, 9.1A	100L
6.1D, 6.5A, 6.5B, 6.7A, 8.2B, 9.AB, 9.1C	1,000L
6.6A, 6.7B, 6.8A, 6.9A, 8.2C, 8.3A, 9.1D	10,000L

SECONDARY CONTAINMENT - SMALL CONTAINERS

Dedicated secondary containment for use in workshops, laboratories, food manufacturing and process plants. Ideal for storing small bottles, jugs and containers up to 20L in size.



PRODUCT	DESCRIPTION	CODE
Spill Tray - 20L	<ul style="list-style-type: none"> • 20L spill capacity • Dimensions: 155 x 600 x 400mm (h,w,d) 	407566
Spill Tray - 40L	<ul style="list-style-type: none"> • 40L spill capacity • Dimensions: 155 x 800 x 600mm (h,w,d) 	407567
Spill Tray - 60L	<ul style="list-style-type: none"> • 60L spill capacity • Dimensions: 175 x 1,000 x 600mm (h,w,d) 	407568
Spill Tray - 100L	<ul style="list-style-type: none"> • 100L spill capacity • Dimensions: 175 x 1,200 x 800mm (h,w,d) 	407569

SECONDARY CONTAINMENT - DRUMS

Workfloors are a low profile secondary containment system for medium size containers, lead acid batteries and drums. Spill Pallets are forkliftable for easy relocation. Both are made from 100% polyethylene ensuring no rust or corrosion

PRODUCT	DESCRIPTION	CODE
 <p>405317</p>	<ul style="list-style-type: none"> • 112L sump capacity • 1350kg load rating • H 150 x W1600 x D800mm 	405317
 <p>405318</p>	<ul style="list-style-type: none"> • 239L sump capacity • 2700kg load rating • H 150 x W1600 x D1600mm 	405318
 <p>405320</p>	<ul style="list-style-type: none"> • 250L sump capacity • 650kg load rating • Dimensions: 440 x 1,300 x 750mm (h,w,d) 	405320
 <p>405321</p>	<ul style="list-style-type: none"> • 250L sump capacity • 1,250kg load rating • Dimensions: 305 x 1,460 x 1,460mm (h,w,d) 	405321

IBC CONTAINMENT - INTERMEDIATE BULK CONTAINERS

Forkliftable for easy relocation and made from 100% polyethylene which ensures there is no rust or corrosion

PRODUCT	DESCRIPTION	CODE
 <p>405325</p>	<ul style="list-style-type: none"> • 1,260L sump capacity • 2,500kg load rating • Dimensions: H 700 x W1680 x D1600mm 	405325
 <p>405326</p>	<ul style="list-style-type: none"> • 1,200L sump capacity • 3,000kg load rating • Dimensions: H 575 x W2,260 x D1465mm 	405326

OUTDOOR CONTAINMENT - DRUMS & IBCs

If you are storing drums or IBC units outdoors, it is important that the containment area is kept free from rainwater, and in many instances that the liquids stored are secure from unauthorised access. Built from 100% polyethylene, Hazero Hardcovers provide that certainty along with the required level of secondary containment

PRODUCT	DESCRIPTION	CODE
 <p>467541</p>	<ul style="list-style-type: none"> • 250L sump capacity • 650kg load rating • Weight 101.5kg 	467541
 <p>467542</p>	<ul style="list-style-type: none"> • 250L sump capacity • 1250kg load rating • Weight 148kgm 	467542
 <p>467543</p>	<ul style="list-style-type: none"> • 1,260L sump capacity • 2,500kg load rating • Weight 221kg 	467543

THE SPILL RESPONSE PROCESS

1. **ASSESS:** identify the type and size of the spill. Confirm your capability to respond or if additional or external help is needed. If safe, stop the source.



2. **ALERT:** notify fellow employees and management, and if necessary, evacuate the likely affected area.



3. **PREPARE:** ensure the necessary PPE is fitted and that your spill kit is the correct type to respond effectively.



4. **CONTAIN:** use absorbent socks to contain the spill, including blocking any stormwater drains.

5. **CLEAN-UP:** use absorbent pads and other material to absorb and clean up the spill, working from the outside in.



6. **DISPOSE:** collect contaminated absorbents and PPE, and secure in dedicated hazardous waste bags.



7. **REPORT AND RESTOCK:** report the incident to the correct management level and ensure all kit contents are replenished asap.



This is a guide only. A spill response procedure should be developed to meet specific site requirements.

SPILL ABSORBENTS & KITS

WHAT'S THE BEST SOLUTION?

It is important to know the difference between the 3 types of sorbent products – noting that the same terminology is also used for spill response kits.

Oil Only: will repel water and selectively absorb oils, fuels and other hydrocarbons. Typically used in marine situations. White in colour.

General Purpose: will absorb the above liquids but also water-soluble liquids as well, such as coolants, brake fluid, paints and mild chemicals. Grey in colour.

Chemical: designed to absorb all the above but also most of the nasty acids, alkalis and other harsh chemicals. Bright yellow for hazard recognition.



PADS - FOR RAPID SPILL ABSORPTION ON FLAT SURFACES.

	PRODUCT	DESCRIPTION	CODE
	Sorbent Pad (OIL ONLY)	<ul style="list-style-type: none"> - 400 x 500mm - 10 pack - 400 x 500mm - 100 per carton - Heavyweight - Absorbs up to 0.8L per pad - Colour: White 	409717 410108
	Sorbent Pad (GENERAL PURPOSE)	<ul style="list-style-type: none"> - 400 x 500mm - 10 pack - 400 x 500mm - 100 per carton - Heavyweight - Absorbs up to 0.9L per pad - Colour: Dark Grey 	409718 419934
	Sorbent Pad (CHEMICAL)	<ul style="list-style-type: none"> - 400 x 500mm - 10 pack - 400 x 500mm - 100 per carton - Heavyweight - Absorbs up to 0.9L per pad - Colour: Yellow 	409719 419935

SOCKS - FOR SURROUNDING AND CONTAINING SPILLS.

	PRODUCT	DESCRIPTION	CODE
	Sorbent Sock (OIL ONLY)	<ul style="list-style-type: none"> - 75mm x 1.2m - Absorption Capacity: 4 litres per sock - Colour: White 	409723
	Sorbent Sock (OIL ONLY)	<ul style="list-style-type: none"> - 75mm x 3.6m - Absorption Capacity: 10 litres per sock - Colour: White 	409724
	Sorbent Sock (GENERAL PURPOSE)	<ul style="list-style-type: none"> - 75mm x 1.2m - Absorption Capacity: 5 litres per sock - Colour: Grey 	409725
	Sorbent Sock (GENERAL PURPOSE)	<ul style="list-style-type: none"> - 75mm x 3.6m - Absorption Capacity: 12 litres per sock - Colour: Grey 	409726
	Sorbent Sock (CHEMICAL)	<ul style="list-style-type: none"> - 75mm x 1.2m - Absorption Capacity: 4 litres per sock - Colour: Yellow 	409727
	Sorbent Sock (CHEMICAL)	<ul style="list-style-type: none"> - 75mm x 3.6m - Absorption Capacity: 10 litres per sock - Colour: Yellow 	409728

ROLLS

	PRODUCT	DESCRIPTION	CODE
	Sorbent Roll (OIL ONLY)	<ul style="list-style-type: none"> - 400mm x 50m - Absorption Capacity: 90 litres per roll - Colour: White 	409825
	Sorbent Roll (OIL ONLY)	<ul style="list-style-type: none"> - 800mm x 50m - Absorption Capacity: 144 litres per roll - Colour: White 	407563
	Sorbent Roll (GENERAL PURPOSE)	<ul style="list-style-type: none"> - 400mm x 50m - Absorption Capacity: 90 litres per roll - Colour: Dark Grey 	407219
	Sorbent Roll (GENERAL PURPOSE)	<ul style="list-style-type: none"> - 800mm x 50m - Absorption Capacity: 144 litres per roll - Colour: Grey 	407218

BOOMS (OIL ONLY) - FOR CONTAINING AND ABSORBING OIL SPILLS ON WATER.

	PRODUCT	DESCRIPTION	CODE
	Sorbent Boom (OIL ONLY)	<ul style="list-style-type: none"> - 130mm x 3m - Absorption Capacity: 30 litres per boom 	409729
	Sorbent Roll (OIL ONLY)	<ul style="list-style-type: none"> - 200mm x 3m - Absorption Capacity: 80 litres per boom 	409730

VEHICLE AND MOBILE SPILL KITS

VEHICLE SPILL KITS

EVERYDAY SPILL KIT - OIL ONLY - 20L

This spill kit is designed to clean up oil and fuel spills up to 20 litres. Fits easily in work vehicles and can be easily carried to a spill.



CODE 409731



GENERAL PURPOSE SPILL KIT - 20L

Everything you need to respond quickly and safely to spills in oils, mild chemicals and water based liquids. This spill kit is designed to absorb up to 20 litres of general liquid spill. Fits easily in work vehicles and can be easily carried to a spill.



CODE 409732



EVERYDAY SPILL KIT - CHEMICAL - 20L

When transporting harsh chemicals, this Hazero Spill Kit can quickly prevent a small chemical spill from becoming a very big deal. Comprising absorbents specifically designed for responding to spills of strong acids, alkalis and bases, it absorbs up to 20L.



CODE 409733



GENERAL PURPOSE SPILL KIT - 50L

Vehicle spill kits are ideal for carrying in trucks, vans and utes. Designed to fit in either the cab or in a chassis-mounted storage box. Ideal for applications such as transport, forklifts and work vehicles. Quick and easy to deploy, absorbs up to 50L per kit.



CODE 451127



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MOBILE SPILL KITS

EVERYDAY SPILL KIT - OIL ONLY

Designed to handle spills of oil and other hydrocarbons at construction sites, fuel stations, ports and marinas. Features a select range of absorbents that will lift hydrocarbon spill off water in no time at all.



100L CODE 409740
200L CODE 409746



GENERAL PURPOSE SPILL KIT

For sites when no two spills are the same. Reliable, rapid-acting spill kits suitable for large workshops, food production plants and transport depots - where spills of a wide range of liquids need to be anticipated.



100L CODE 409742
200L CODE 409748



Who needs an emergency shower or eyewash

An emergency shower and eyewash is an essential piece of first aid equipment that allows businesses to respond rapidly to hazardous chemical splashes to workers' eyes and skin.

Chemical splashes should be treated immediately and flushed for at least 15 minutes with a tepid (16°C – 38°C) flushing fluid.

This is particularly important for businesses opening containers of chemicals which have either corrosive or toxic properties.



AS3778-2008 – The Storage and Handling of Corrosive Substances, requires that where containers are opened that an emergency shower and eyewash, complying with AS4775, shall be provided within 10m, but no closer than 2m from where packages are opened.



AS/NZS 4452:1997 – The Storage and Handling of Toxic Substances, requires that where containers are opened that an emergency shower and eyewash, complying with AS4775, shall be provided within 7m, but no closer than 2m from where packages are opened.

Supplementary Equipment



Saline eyewashes such as Tobin are approved as "Supplementary Equipment" under AS4775-2007 – The standard for Emergency Shower & Eyewash Equipment. They complement plumbed equipment and can be placed directly adjacent to high hazard areas.

SAFETY STATION EYE/ FACE WASH

Combination eye/face wash and shower safety station. Eye/face wash features two large FS-Plus spray-type outlet heads that deliver a flood of water for rinsing eyes and face. Unit is provided without bowl or drain for waste water.

Note: Floor drain should be provided underneath unit to prevent accumulation of water on floor.

CODE 423520

SAFETY STATION EYE/ FACE WASH WITH PLASTIC BOWL

Combination eye/face wash and shower safety station with plastic bowl. Eye/face wash is activated by flag handle and features two large FS-Plus spray-type outlet heads that deliver a flood of water for rinsing eyes and face.

CODE 423521

SAFETY STATION EYE/ FACE WASH WITH CONTROLS

Combination eye/face wash and shower safety station with plastic bowl. Eye/face wash is activated by flag handle or foot treadle and features two large FS-Plus spray-type outlet heads that deliver a flood of water for rinsing eyes and face.

CODE 423522

SAFETY STATION WITH EYE/FACE WASH - PVC

All-PVC combination eye/face wash and shower safety station. Unit is constructed entirely of PVC and PVC coated components for superior corrosion resistance. Ideal for industrial environments where harsh acids or caustics are present. Eye/face wash features two large FS-Plus spray-type outlet heads that deliver a flood of water for rinsing eyes and face.

CODE 423524

EYE/FACE WASH WALL MOUNTED - PLASTIC BOWL

Eye/face wash with plastic bowl for wall mounting. Two large FS-Plus spray-type outlet heads deliver a flood of water for rinsing eyes and face.

Spray Head Assembly: Two FS-Plus spray heads. Each head has a flip top dust cover, internal flow control and filter to remove impurities from the water flow.

CODE 423532

SE-475 AERATED EYE/ FACE WASH UNIT

Eye/face wash for wall mounting. Two large FS-Plus spray-type outlet heads deliver a flood of water for rinsing eyes and face.

Unit is provided without bowl or drain for waste water.

Note: Floor drain should be provided underneath unit to prevent accumulation of water on floor.

CODE 423534

EYE/FACE WASH PEDESTAL MOUNTED - PLASTIC

Free standing, pedestal mounted eye/face wash. Two large FS-Plus spray-type outlet heads deliver a flood of water for rinsing eyes and face.

Spray Head Assembly: Two FS-Plus spray heads. Each head has a flip top dust cover, internal flow control and filter to remove impurities from the water flow. Bowl: 298cm diameter orange ABS plastic

CODE 423533

EYEWASH/ DRENCH HOSE UNIT, DECK MOUNTED

Dual purpose eyewash/drench hose for deck mounting. Unit meets the provisions of AS477-2007 as both an eyewash and a drench hose. Unit may be left in the deck flange for use as a fixed eyewash, leaving user's hands free. Alternatively, unit may be removed for use as a drench hose to rinse any part of user's eyes, face or body.

CODE 423535

All Guardian units comply to AS 4775-2007

The AS 4775:2007 Standard for Emergency Shower and Eye Wash Equipment Guidelines



- Flushing fluid should be tepid 16°C to 38°C
- Equipment should be tested weekly and inspected annually
- Equipment should be connected to a supply that will allow for a minimum of 15 minutes of operation at the required flow rates
- Equipment should be third party certified
- Combination units should be capable of operating simultaneously



SE-607 COMBINATION DELUGE SHOWER

Floor mounted EMERGENCY DELUGE SHOWER and AERATED EYE FACE WASH combination unit. Shower is supplied with a 25mm stay open full flow ball valve, activated by a triangle pull rod. Eye & Face wash is supplied with a 15mm stay - open full flow ball valve, activated by a hand push handle or foot pedal.

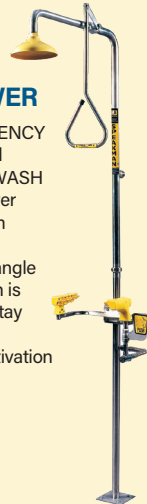
Note: Units require an uninterrupted water source, preferably no less than 25mm, with minimum flowing pressure of 130kPa and maximum static pressure of 860kPa.



CODE 860647

SE-685 COMBINATION DELUGE SHOWER

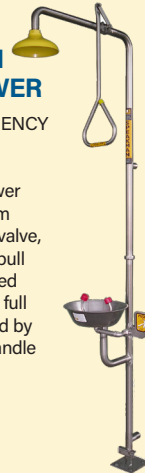
Floor mounted EMERGENCY DELUGE SHOWER and AERATED EYE/FACE WASH combination unit. Shower is supplied with a 25mm stay open full flow ball valve, activated by a triangle pull rod. Eye/Face wash is supplied with a 15mm stay open full flow ball valve, activated by an activation paddle handle.



CODE 827016

SE-616 COMBINATION DELUGE SHOWER

Floor mounted EMERGENCY DELUGE SHOWER & AERATED EYE WASH combination unit. Shower is supplied with a 25mm stay open full flow ball valve, activated by a triangle pull rod. Eye wash is supplied with a 15mm stay open full flow ball valve, activated by an activation paddle handle and foot pedal.



CODE 827020

SE-227 DELUGE SHOWER

Non-clogging, self cleaning and can be supplied to fit any application. The impeller action of these heads distributes floods of water without voids in the shower pattern that ensures complete body coverage for faster decontamination. Note: Units require an uninterrupted water source, preferably no less than 25mm, with minimum flowing pressure of 130kPa and maximum static pressure of 860kPa.

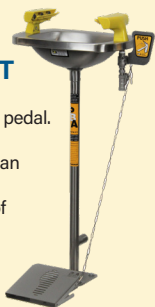


CODE 827000

14

SE-480 AERATED EYE/ FACE WASH UNIT

Wall mounted. Hand and foot operated via push handle and foot pedal. Units require uninterrupted water source, preferably no less than 20mm, with minimum flowing pressure of 136kPa and flow rate of 36 LPM.F



CODE 827007

SE-475 AERATED EYE/ FACE WASH UNIT

Wall mounted EMERGENCY AERATED EYE/FACE WASH unit. Eye/Face wash is supplied with a 15mm stay open full flow ball valve, activated by an activation paddle handle.



CODE 827006

SE-400 AERATED EYE/ FACE WASH UNIT

Wall mounted - supplied with stainless steel bowl, 15mm stay-open full flow ball valve, activated by stainless steel push handle supplied with in-line strainer and heavy duty wall mounting plate.



CODE 827004

SE-582 AERATED EYE WASH UNIT

Aerated water provides a peroxide scrubbing action that removes contaminants from delicate soft membrane areas more efficiently and safely.



CODE 820289

SE-927 EYE WASH/ DRENCH HOSE

Suitable for laboratories and industrial areas for flushing the eyes and body. All units come standard with a flexible hose making an ideal product for direct flushing on contaminated body areas.



CODE 827024

SE-546 EYE WASH UNIT

Floor mounted. Eye wash is supplied with a 15mm stay open full flow ball valve, activated by an activation paddle handle and foot pedal.



CODE 827288

All Speakman Lifesaver Showerheads are AS 4775-2007 certified and specifically designed to perfectly balance pressure between shower and eyewash when simultaneously operated.

Emergency Signs

Indicate the location of, or the directions to, emergency related facilities such as exits, safety equipment or first aid facilities and may include a symbolic shape (white image against a green background) and white text.

Size mm	Material	Part Number
600 x 450	POLY	05009414
450 x 300	POLY	05305537

EMERGENCY SHOWER AND EYE WASH
IN CASE OF CHEMICAL SPLASH WASH FOR 15 MINUTES PRIOR TO MEDICAL TREATMENT

Size mm	Material	Part Number
450 x 600	POLY	04121062
300 x 450	POLY	04119821
225 x 300	POLY	03133737
180 x 250	SAV	04119957

EMERGENCY SHOWER
IN CASE OF CHEMICAL SPLASH WASH FOR 15 MINUTES PRIOR TO MEDICAL TREATMENT

Size mm	Material	Part Number
450 x 600	POLY	05321670
300 x 450	POLY	05009397
225 x 300	POLY	05305520
180 x 250	SAV	05013460

EMERGENCY EYE WASH
IN CASE OF CHEMICAL SPLASH WASH FOR 15 MINUTES PRIOR TO MEDICAL TREATMENT

Size mm	Material	Part Number
450 x 600	POLY	05321670
300 x 450	POLY	05009397
225 x 300	POLY	05305520
180 x 250	SAV	05013460

HAZARDOUS SUBSTANCES SIGNAGE

When selecting PROSAFE signage for hazardous substances in the workplace (site and transit) it is essential to be accurate with your selection. The identification of the hazardous substance must be right, refer to the GHS Chart for assistance. (See page 06-24 of our Catalogue)

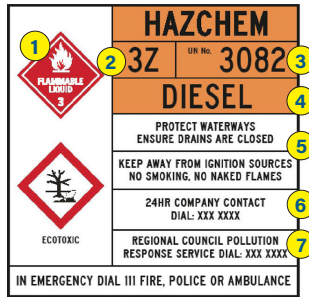
Hazchem Sign

Example:

Yellow dots: supplied by the customer contact

Information required:

1. GHS Classification
2. HAZCHEM code
3. UN number
4. Product name
5. Precautionary Information
6. 24 hour organisation contact (optional)
7. Council or pollution response contact (optional)
8. Maximum quantity stored at any one time and container size



If you have hazardous substances over specific levels (trigger points) in your workplace, signs must be displayed to let staff, visitors, contractors and emergency services know that the substances are there, and to inform them of the associated hazard.

Refer to calculator at www.hazardoussubstances.govt.nz and the Safety Data Sheet (SDS) to find the Classifications relevant (be aware of Trigger Points).

Location Requirements:

- At every pedestrian and vehicle entrance onto your site
- At the entrance to the building where product is stored

Size and materials:

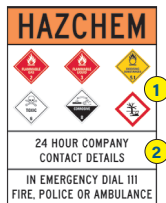
- Refer to step 3 to select the appropriate material
- All sizes are available in various materials
- The size of Hazchem signage is governed by the Hazchem code of conduct – minimum size rules may apply for the sign your business requires
- Consider where the product is stored

Entrance Signs

- Required at every pedestrian and vehicular entrance to the site
- Minimum diamond size required is 100 x 100mm

Information required:

1. GHS Classification required for all substances stored on site that exceed their trigger points
2. 24hr Company contact information (optional)



Description	Size mm	Material	Part Number
1 - 3 Diamonds	600 x 600	ACM	424776
4 - 8 Diamonds	600 x 800	ACM	424777

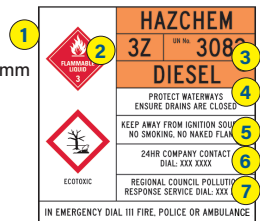
Custom sign artwork set-up cost is included in these signs. Can not be returned.

Bulk Storage Signs

- Required at the location where hazardous substances are stored
- Minimum diamond size required is 250 x 250mm

Information required:

1. GHS Classification required
2. The HAZCHEM code
3. UN number
4. Product name
5. Precautionary information
6. 24hr Company contact (optional)
7. Pollution response information (optional)



Description	Size mm	Material	Part Number
1 Diamond	1220 x 800	ACM	424792
2 - 3 Diamonds	1220 x 1220	ACM	424793

Custom sign artwork set-up cost is included in these signs. Can not be returned.

Mixed Storage Signs

- Required when storing multiple hazardous substances in one location
- Minimum diamond size required is 100 x 100mm

Information required:

1. GHS Classification required
2. The combined HAZCHEM code
3. Precautionary information
4. 24hr Company contact (optional)
5. Pollution response information (optional)



Description	Size mm	Material	Part Number
1 - 3 Diamonds	800 x 800	ACM	424794
4 - 8 Diamonds	1220 x 600	ACM	424795
9 - 11 Diamonds	1220 x 800	ACM	424796

Custom sign artwork set-up cost is included in these signs. Can not be returned.

Did you know there are different hazardous substance sign requirements depending on the type of vehicle you are using and what weight of dangerous goods you are carrying?

Vehicle Type and Capacity:

Placard to be Displayed:



Dangerous Goods
Over 50L/50kg



250mm minimum diamond size

PLACARD EXAMPLE ONLY

Vehicle Type and Capacity:

Placard to be Displayed:



Dangerous Goods - Bulk
Over 450L/400kg

400mm minimum diamond size rear vehicle



250mm minimum diamond size front vehicle

PLACARD EXAMPLE ONLY

Vehicle Type and Capacity:

Placard to be Displayed:



Dangerous Goods - Bulk
Over 450L/400kg



400mm minimum diamond size rear vehicle

PLACARD EXAMPLE ONLY

FIND OUT MORE

CLICK HERE to see the PROSAFE Signage & Visual Safety Products Easy Guide



ORDER

Find out how easy it is to order customised signage. CLICK HERE



SEE OUR RANGE OF HAZARDOUS SUBSTANCE SIGNS AND PLACARDS



KEEP YOUR EMPLOYEES SAFE WHEN WORKING WITH HAZARDOUS SUBSTANCES

DO YOU HAVE DANGEROUS GOODS OR HAZARDOUS SUBSTANCES ON SITE?

Are they being stored correctly?
Do you have adequate secondary containment?
If there was a hazardous substance spill on site, could that spill be controlled and cleaned up quickly and safely.
The below site self-assessment form can help you create a safer working environment?



Dangerous Goods Self-Assessment Checklist

STORAGE CABINETS				SECONDARY CONTAINMENT				SPILL MANAGEMENT			
	YES	NO	UNKNOWN		YES	NO	UNKNOWN		YES	NO	UNKNOWN
Are there dangerous goods on site? (i.e. Class 3 Flammables and Class 8 Corrosives)				Are there small containers of oil on site? (less than 100L)				Does the site have the ability to control and clean-up hazardous substance spills?			
Are these dangerous goods stored in the storage cabinets?				Are there 200L drums of oil or chemicals on site?				Are there appropriate spill kits on site?			
If so, do these cabinets meet the current design requirements?				Are there 1000L intermediate bulk containers on site?				Are they fully stocked and ready to respond to a spill?			
Hazardous Substance Regulations and Topics: http://worksafe.govt.nz/topic-and-industry/hazardous-substances/about-hazardous-substances				Is there secondary containment in place in case these leak or spill?				For help or further information contact your NZ Safety Blackwoods Account Manager or call 0800 660 660			

ASSESS, TRAIN & EQUIP

We provide NZQA accredited courses to equip workers with the necessary knowledge to ensure they maintain a safe and compliant workplace under the Health and Safety at Work (Hazardous Substances) Regulations 2017.

NZ Safety Blackwoods

WORKSAFE TRAINING



Call now to book a course
0800 967 572

