

## Safe Handling and Storage of Diesel

Document no. SMS-06-SW-0194	Job title/description Storage and handling of diesel		
	<b>References</b> <a href="#">OHS Regulation 2001 – Chapter 6 and 6A</a> <a href="#">WorkCover Code of Practice for Storage and handling of dangerous goods 2005</a> <a href="#">WorkCover Code of Practice for Control of workplace hazardous substances 1996</a> AS1940 – 2004 The storage and handling of flammable and combustible liquids		
<b>Responsible supervisor</b> <i>Insert name in BLOCK letters</i>	<b>PPE and precautions</b> <ul style="list-style-type: none"> <li>• Safety goggles or safety glasses with side shields</li> <li>• Impervious rubber or PVC gloves</li> </ul>	<b>Competencies or qualifications</b>	<b>Licences or permits required</b>
<b>Tools and equipment required</b> Inert absorbent material for spillage control; powder or foam fire extinguishers			
<b>APPLIES TO MINOR QUANTITIES ONLY - ADDITIONAL STORAGE CONTROLS MAY BE REQUIRED FOR LARGER QUANTITIES (REFER TO TABLE BELOW FOR DEFINITION OF MINOR STORAGE). REFER TO AS1940 OR CONSULT WITH A DANGEROUS GOODS SPECIALIST FOR MORE INFORMATION ON REQUIREMENTS OVER MINOR QUANTITIES.</b>			
<b>General</b>	<ul style="list-style-type: none"> <li>• Diesel is classified as a C1 combustible liquid.</li> <li>• All personnel using/handling diesel are to be trained in this SWI</li> <li>• Eye wash and showers should be available for emergency situations</li> </ul>		
<b>Storage (minor quantities)</b>	<ul style="list-style-type: none"> <li>• Where there are a number of different minor flammable or combustible storage areas (excluding cabinets with capacity less than 250L) they are to be separated from each other by 20m (indoor) or 15m (outdoor).</li> <li>• Diesel storage and handling locations are to be well ventilated and away from ignition sources, oxidising agents, foodstuffs and clothing</li> <li>• All storage tanks are to have a "Combustible Liquid" sign fitted in a clearly visible location</li> <li>• Containers are to be closed when not in use</li> <li>• In areas where 1000litres of diesel are stored the following items are to be provided: <ul style="list-style-type: none"> <li>- a warning sign saying "DANGER – FLAMMABLE LIQUID – NO SMOKING – KEEP AWAY" in a clearly visible location</li> <li>- a portable fire extinguisher (ie a powder type extinguisher having a rating of at least 2A 60B(E), or a foam extinguisher having a rating of at least 2A 20B).</li> </ul> </li> <li>• Cutting, puncturing or welding on or near containers is not permitted as empty containers may contain hazardous residues</li> <li>• where quantities exceed 1000L, place "HAZCHEM" placards at entries to the site</li> </ul>		
<b>Controlling exposure</b>	<ul style="list-style-type: none"> <li>• Where there is potential for exposure to diesel vapours or fumes, airborne concentration levels are to be maintained below 5mg/m³ (TWA) by the use of: <ul style="list-style-type: none"> <li>- mechanical ventilation, or where not reasonably practicable to do this</li> <li>- respiratory protective equipment with a replaceable organic vapour filter</li> </ul> </li> <li>• To prevent contact with skin, persons handling diesel are to wear the following PPE: <ul style="list-style-type: none"> <li>- safety goggles or glasses with side shields</li> <li>- impervious PVC or rubber gloves</li> </ul> </li> <li>• Contaminated clothing is to be changed as soon possible and laundered before use</li> <li>• Internally contaminated gloves and boots are to be disposed of immediately</li> <li>• Persons handling diesel are to maintain high levels of personal hygiene, including washing hands before and after eating, drinking, smoking or using the toilet.</li> </ul>		

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<b>Spills and leaks</b>	In the event of a diesel spill or leak, and if safe to do so, comply with this procedure: <ul style="list-style-type: none"> <li>• isolate all sources of ignition</li> <li>• stop leak, if safe to do so</li> <li>• increase ventilation</li> <li>• wear appropriate breathing apparatus (ie approved respirator with replaceable organic vapour filter) and full protective clothing to minimise skin and eye exposure</li> <li>• attempt to contain the spill (ie using inert, non-combustible absorbent material such as vermiculite, sand or earth)</li> <li>• do not dilute material or allow product to enter drain, sewers or water courses</li> <li>• collect disposal material using clean non-sparking tools and place into a suitable labelled container for disposal</li> </ul>														
<b>Disposal</b>	<ul style="list-style-type: none"> <li>• Follow local authority guidelines for disposal of the waste</li> <li>• DO NOT treat contaminated containers as household waste</li> <li>• DO NOT remove labels from empty containers until they are cleaned of diesel residue</li> </ul>														
<b>Minor storage definition</b>	<p>Minor storage is defined as the following:</p> <table border="1"> <thead> <tr> <th><b>Type of premises</b></th> <th><b>Quantity</b></th> </tr> </thead> <tbody> <tr> <td>Commercial buildings (indoors)</td> <td> <ul style="list-style-type: none"> <li>• 500L per 50m<sup>2</sup> of floor space, or</li> <li>• 500L for any tenancy less than 50m<sup>2</sup></li> <li>• 4L per 1m<sup>2</sup> or</li> <li>• less than 2000L in any 500m<sup>2</sup> area</li> </ul> </td> </tr> <tr> <td>Factories and workshops (indoors)</td> <td>2500L</td> </tr> <tr> <td>Commercial buildings, factories, workshops (outdoors) in attached outhouses or sheds separated by a fire rated partition</td> <td>5000L</td> </tr> <tr> <td>Commercial buildings, factories, workshops (outdoors) outside, or in a detached shed or outhouse separated from the factory, etc by at least 1m</td> <td>10,000L</td> </tr> <tr> <td>Open land (above ground and underground)</td> <td>10,000L</td> </tr> <tr> <td>Construction sites</td> <td></td> </tr> </tbody> </table>	<b>Type of premises</b>	<b>Quantity</b>	Commercial buildings (indoors)	<ul style="list-style-type: none"> <li>• 500L per 50m<sup>2</sup> of floor space, or</li> <li>• 500L for any tenancy less than 50m<sup>2</sup></li> <li>• 4L per 1m<sup>2</sup> or</li> <li>• less than 2000L in any 500m<sup>2</sup> area</li> </ul>	Factories and workshops (indoors)	2500L	Commercial buildings, factories, workshops (outdoors) in attached outhouses or sheds separated by a fire rated partition	5000L	Commercial buildings, factories, workshops (outdoors) outside, or in a detached shed or outhouse separated from the factory, etc by at least 1m	10,000L	Open land (above ground and underground)	10,000L	Construction sites	
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<b>Additional controls</b>															