

## RISK ASSESSMENT

Assessment Title:	<b><i>Pressure Washing Operations</i></b>	Reference Number:	CPFRA003.01
		Company Name:	<b>Dundas Chemical Co (Mosspark) Ltd</b>
		Department / Location:	<b>Pet Foods</b>

### Risk Assessment Matrix

Risk Ratings Highlighted in 'Orange' are to be discussed– potential improvements. Risk Ratings Highlighted in 'Red' need immediate action.

<i>Risk = Likelihood x Consequence (Multiply 'X' axis by 'Y' axis)</i>		<b>Consequence (Y)</b>	<i>Catastrophic (5)</i>	5	10	15	20	25
1 – 4	<i>Acceptable</i>		<i>Major (4)</i>	4	8	12	16	20
5 – 9	<i>Adequate</i>		<i>Moderate (3)</i>	3	6	9	12	15
10 – 15	<i>Tolerable</i>		<i>Minor (2)</i>	2	4	6	8	10
16 – 25	<i>Unacceptable</i>		<i>Insignificant (1)</i>	1	2	3	4	5
			<i>Remote (1)</i>	<i>Unlikely (2)</i>	<i>Possible (3)</i>	<i>Probable (4)</i>	<i>Certain (5)</i>	
<i>Likelihood (X)</i>								

*Any queries arising from this risk assessment shall be addressed immediately with Line Management / Health & Safety Manager*

Hazard(s)	Risks of Harm	Persons at Risk	Risk Rating(s)			Existing Control Measures	Residual Risk Rating(s)		
	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	X	Y	R	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	X	Y	R
Manual Handling - Manoeuvring / Handling Machine & Equipment	Musculoskeletal injuries as a result of poor manual handling techniques. Crush injuries due to unintended machine movement	All operational staff carrying out manual handling activities or those in the vicinity of pressure washer	3	4	12	<ul style="list-style-type: none"> <li>Employees to receive training / instruction on safe lifting and handling techniques related to use of the pressure washer.</li> <li>Correct manual handling techniques to be used.</li> <li>Regular breaks to be taken when carrying out pressure washing for prolonged periods.</li> <li>Weight to be assessed prior to committing to lifting.</li> <li>Seek assistance and use mechanical aids whenever possible.</li> <li>Pressure washer to be situated on firm level surface.</li> <li>Wheels to be chocked prior to use and breaks to be applied to prevent movement.</li> <li>Appropriate Personal Protective Equipment (PPE) to be worn when carrying out manual handling including: <ul style="list-style-type: none"> <li>Safety Gloves</li> <li>Steel Toe Capped Footwear</li> </ul> </li> </ul>	2	3	6
Slips, Trips & Falls	Slips, trips or falls causing breaks, sprains or bruising	Any persons in the work area	4	3	12	<ul style="list-style-type: none"> <li>Equipment to be cleaned to be positioned in close proximity to the washer to reduce the risk presented by trailing hose.</li> <li>Persons using the pressure washer to be aware of trailing hose and slippery surface, caution to be taken.</li> <li>Pressure washing to be undertaken in designated location 'wash bay' with sufficient drainage.</li> <li>The following signage erected within the wash bay: <ul style="list-style-type: none"> <li>'Caution Slippery Surface'</li> </ul> </li> <li>Only approved access platforms to be used.</li> <li>All staff within the work area to wear appropriate footwear i.e. steel toe capped work boots.</li> </ul>	2	4	8
Noise 85db+	Noise from running of pressure washer causing acute and chronic hearing injury	Any persons in the immediate vicinity	3	4	12	<ul style="list-style-type: none"> <li>All equipment to be regularly serviced in accordance with manufacturer's instructions.</li> <li>Occupational health surveillance to monitor the potential impacts of any exposure to noise levels undertaken by relevant staff.</li> <li>Operator and co-workers in work area to be provided with suitable hearing protection.</li> </ul>	2	2	4

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	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	X	Y	R	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	X	Y	R
Operation of Pressure Washer (High Pressure Water)	Water ingestion, absorption or bruising caused by contact with high pressure water. Contact from debris ejected from unclean equipment.	Operational staff or persons within the immediate vicinity of pressure washer when in use	4	4	16	<ul style="list-style-type: none"> <li>Only competent employees who have received appropriate information, instruction &amp; training in the safe use of the pressure washer are permitted to use.</li> <li>Access to the work area to be restricted to authorised persons only during pressure washing.</li> <li>Operators to carry out pre-use checks on pressure washer, any faults identified to be reported to management and rectified prior to use.</li> <li>Pressure washer to be controlled using the lance and operated using the gun. Operators must have two hands on the pressure washer at all times while in use.</li> <li>Lance must never be pointed in the direction of individuals</li> <li>Correct levels of Personal Protective Equipment (PPE) to be used, including: <ul style="list-style-type: none"> <li>Eye Wear (Goggles) or Full-Face Mask</li> <li>Safety Gloves</li> <li>Wellingtons</li> <li>Long Sleeve / Long Trousers (Waterproofs)</li> </ul> </li> </ul>	3	3	9
Water Temperature	Burns or scalding from exposure to water from hot water boiler systems	Operational staff or persons within the immediate vicinity of pressure washer when in use	4	3	12	<ul style="list-style-type: none"> <li>Employees to only handle the pressure washer by the gun and lance components.</li> <li>Hose must not be directed at persons and operators must not put their hands in the jet stream during use.</li> <li>Equipment / Telehandlers / Vehicles being washed must be allowed sufficient time to 'cool down' prior to handling.</li> <li>Use appropriate Personal Protective Equipment (PPE) including long shirt sleeves, long trousers and gloves.</li> </ul>	2	3	6

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	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	X	Y	R	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	X	Y	R
Maintenance / Repair Work	Injuries resulting from unintended start up, unforeseen fault or hot surfaces	Maintenance staff and any persons in the vicinity during maintenance work	3	5	15	<ul style="list-style-type: none"> <li>Repair / maintenance works are to be completed by competent persons only.</li> <li>Ensure that the power and water supply have been fully isolated before commencing repair / maintenance work.</li> <li>Allow the lance, pipes, heater, hoses and any hot components to cool before disconnecting / commencing repair work.</li> <li>Release the pressure in the system before commencing task (especially when disconnecting the lance)</li> <li>Ensure replacement parts meet the manufacturers specifications.</li> <li>Appropriate levels of Personal Protective Equipment (PPE) to be worn during any repair work including: <ul style="list-style-type: none"> <li>Coveralls</li> <li>Eye Wear (Goggles) or Full-Face Mask</li> <li>Safety Gloves</li> <li>Steel Toe Capped Footwear</li> </ul> </li> </ul>	3	3	9
Hazardous Substances	Exposure to hazardous substances and related adverse effects	Persons using pressure washer	4	4	16	<ul style="list-style-type: none"> <li>Only authorised and competent persons are permitted to use chemicals involved in the pressure washing process.</li> <li>Material Safety Data Sheets (MSDS) and COSHH Assessments to be made available to persons, read, and understood by persons.</li> <li>Department management to make Health &amp; Safety Manager aware of new products used – COSHH Assessments to be completed.</li> <li>Hazardous substances to be used in designated areas only.</li> <li>Appropriate Personal Protective Equipment (PPE) to be worn in line with contents of Manufacturers Safety Data Sheet (MSDS) and COSHH Assessment.</li> <li>Spill kits and eye washes to be available where required.</li> <li>All chemicals to be locked away and stored in the correct container when not in use.</li> </ul>	3	3	9

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	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	X	Y	R	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	X	Y	R
Re-Fuelling / Checking Oil Levels	Fire / Explosion causing burns. Exposure to harmful fuels & oils leading to skin irritation	Maintenance personnel or any persons in the vicinity	4	5	20	<ul style="list-style-type: none"> <li>Fuel spillages to be cleared immediately using absorbent granules where possible, spill kits to be available for larger spills.</li> <li>Re-fuelling to take place in well-ventilated area away from heat &amp; ignition sources.</li> <li>Suitable fire extinguishers to be available in the vicinity of re-fuelling.</li> <li>Material Safety Data Sheets (MSDS) and COSHH Assessment to be available for fuels and lubricants used. These must be read and understood by any persons carrying out re-fuelling.</li> <li>Washer to be isolated prior to re-fuelling.</li> <li>Operators re-fuelling to wear suitable Personal Protective Equipment (PPE) and any fuel splashes to be washed off skin immediately.</li> <li>Caution to be taken by persons re-fuelling to ensure the correct fuel is used – Do NOT fill diesel tanks with petrol.</li> </ul>	2	4	8