

APPENDIX A- RISK ASSESSMENT

PRODUCT RISK / HAZARD ASSESSMENT TABLE

PRODUCT NAME:	DUAL PRESSURE WASHER DPW-4000	Assessment Carried Out By:	Nathan McMillan
MANUFACTURER:	MARINEX	Document Revision Number:	003
OPERATOR COMPETENCY:	PLANT LICENCE NOT REQUIRED	Date Created:	22/01/2018
		Updated By:	Matthew Cape
		Updated Date:	04/03/2019

No:	TYPE / NATURE OF RISK or HAZARD	LIKELIHOOD	CONSEQUENCE	RISK LEVEL	CONTROL ACTION			
1.0	CONTACT WITH FLUID UNDER PRESSURE	1.1	PERSONAL INJURY BY WATER JET FROM SPRAY GUN	LIKELY	MINOR	3	MEDIUM	NEVER POINT SPRAY GUN AT OTHER PEOPLE OR USE HIGH PRESSURE WATER TO CLEAN PEOPLE, ANIMALS, CLOTHING AND FOOTWEAR THIS PRODUCT IS FITTED WITH A 'HOLD TO ACTIVATE' MECHANISM WHICH IS THE SPRAY GUN TRIGGER. UPON RELEASING GRIP, THE HIGH-PRESSURE WATER FLOW WILL BE AUTOMATICALLY STOPPED. WEAR EYE PROTECTION AND PPE USE HIGH PRESSURE RESISTANT GLOVES USE BARRIERS TO KEEP BYSTANDERS AWAY FROM WORK AREA STOP LETTING IF PERSONS ENTER WORK AREA STOP OPERATING IF A MALFUNCTION OCCURS. TO DISABLE THE PRODUCT, TURN THE RED IGNITION SWITCH TO THE 'OFF' POSITION. SEE PICTURE BELOW. THIS WILL IMMEDIATELY STOP THE ENGINE. FURTHER TO THE ABOVE, THE WATER FLOW CAN BE DIVERTED FROM THE SPRAY GUN BY TURNING THE 3 WAY VALVE TO DIVERT THE WATER TO THE SURFACE CLEANER. NEVER PLACE ANY PART OF YOUR BODY UNDER SHROUD WHILST THE ROTARY CLEANER IS IN OPERATION UNDER PRESSURE
		1.2	PERSONAL INJURY BY WATER JET FROM ROTORY CLEANER	UNLIKELY	MINOR	4	LOW	ENSURE EQUIPMENT IS OPERATED PROPERLY AND VALVES ARE ENGAGED/DISENGAGED FULLY THIS PRODUCT IS FITTED WITH A 'HOLD TO ACTIVATE' MECHANISM WHICH IS THE SPRAY GUN TRIGGER. UPON RELEASING GRIP, THE HIGH-PRESSURE WATER FLOW WILL BE AUTOMATICALLY STOPPED. WEAR EYE PROTECTION AND PPE USE HIGH PRESSURE RESISTANT GLOVES TO DISABLE THE PRODUCT, TURN THE RED IGNITION SWITCH TO THE 'OFF' POSITION. SEE PICTURE BELOW. THIS WILL IMMEDIATELY STOP THE ENGINE. FURTHER TO THE ABOVE, THE WATER FLOW CAN BE DIVERTED FROM THE DAMAGED ACCESSORY BY TURNING THE 3 WAY VALVE TO DIVERT THE WATER TO THE SURFACE CLEANER OR TO THE SPRAY GUN
		1.3	EXCESS PRESSURE AND/OR DAMAGED ACCESSORIES CAUSING BLOW OUT OF AIR OR WATER	UNLIKELY	NEGIGIBLE	5	LOW	WEAR EYE PROTECTION AND PPE USE HIGH PRESSURE RESISTANT GLOVES TO DISABLE THE PRODUCT, TURN THE RED IGNITION SWITCH TO THE 'OFF' POSITION. SEE PICTURE BELOW. THIS WILL IMMEDIATELY STOP THE ENGINE. FURTHER TO THE ABOVE, THE WATER FLOW CAN BE DIVERTED FROM THE DAMAGED ACCESSORY BY TURNING THE 3 WAY VALVE TO DIVERT THE WATER TO THE SURFACE CLEANER OR TO THE SPRAY GUN
2.0	IMPACT/CUTTING	2.1	POTENTIAL IMPACT FROM BACK SPRAY CONTAINING WATER/OR DEBRJ	LIKELY	NEGIGIBLE	4	LOW	WEAR APPROPRIATE PPE (e.g. GOGGLES AND WATER PROOF CLOTHING ETC)
		2.2	STRIKE WITH UNCONTROLLED HOSE OR COUPLING	UNLIKELY	NEGIGIBLE	5	LOW	ENSURE HIGH PRESSURE WASHER IS OPERATED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WEAR APPROPRIATE PPE (e.g. GOGGLES AND WATER PROOF CLOTHING ETC)
3.0	SLIPS/TRIPS /FALLS	3.1	SLIP, TRIP OR FALL DUE TO UNEVEN, SLIPPERY OR STEEP WORK SURFACES	LIKELY	NEGIGIBLE	4	LOW	TAKE EXTRA CAUTION WHEN OPERATING ON UNEVEN, SLIPPERY OR STEEP WORK SURFACES ALWAYS WEAR APPROPRIATE FOOT WEAR SIGNPOST WHERE APPROPRIATE, USE WITCHES HATS, 'CORDON OFF' AREAS, ETC.

	3.2	SUP, TRIP OR FALL DUE TO POOR HOUSEKEEPING	LIKELY	NEGIGIBLE	4	LOW	ENSURE THAT APPROPRIATE HOUSEKEEPING STANDARDS ARE MAINTAINED AT ALL TIMES TO MINIMISE THE RISK OF A SLIP, TRIP OR FALL ALWAYS WEAR APPROPRIATE FOOT WEAR
	3.3	TRIPPING ON HOSES	LIKELY	NEGIGIBLE	4	LOW	MAKE SURE TO REEL HOSES NEATLY
4.0	4.1	PERSONAL INJURY – BURNS WHILST DOING MAINTENANCE ON MACHINE	LIKELY	NEGIGIBLE	4	LOW	BE CAUTIOUS OF HOT PARTS (SUCH AS MUFFLERS), ALLOW TO COOL BEFORE MAINTENANCE/ADJUSTMENTS
	4.2	FIRE/EXPLOSION WHILST REFUELING ENGINE	UNLIKELY	MAJOR	3	MEDIUM	SHUT OFF MACHINE AND ALLOW TO COOL BEFORE REFUELING. NEVER REFUEL WHILE MOTOR IS RUNNING. DO NOT SMOKE AND ENSURE REFUELING IS UNDERTAKEN IN WELL VENTILATED AREA (OUTSIDE, CLEAR OF IGNITION SOURCES)
5.0	5.1	ELECTROCUTION DUE TO WATER IN CONTACT WITH LIVE ELECTRICAL EQUIPMENT	UNLIKELY	FATALITY	2	HIGH	ENSURE PRESSURE WASHER IS NOT DIRECTED TO LIVE ELECTRICAL EQUIPMENT ENSURE ANY EXCESS WATER DOES NOT COME INTO CONTACT WITH POWER SOURCES
6.0	6.1	PERSONAL INJURY WHEN LIFTING/OR MOVEMENT ON SITE	LIKELY	MAJOR	2	HIGH	STAFF TRAINING ON CORRECT LIFTING PROCEDURE USE ASSISTED LIFTING DEVICE, SUCH AS MAKINEX PHT-140, WHERE SUITABLE
7.0	7.1	HEARING DAMAGE DUE TO LONG TERM USE	UNLIKELY	MAJOR	3	MEDIUM	ALWAYS WEAR HEARING PROTECTION WHILST OPERATING AND/OR IN CLOSE VICINITY OF THE MACHINE
8.0	8.1	INJURY TO operator or bystanders	UNLIKELY	MINOR	3	MEDIUM	HOSE REEL USED TO MINIMISE EXCESS HOSE BE AWARE OF ENVIRONMENT AND ENSURE FIRM FOOTING
9.0	8.1	FATALITY	UNLIKELY	FATALITY	1	HIGH	DO NOT OPERATE ENGINE WITHOUT SUITABLE VENTILATION

NOTES:

- > THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED AS A DUAL PRESSURE WASHER ONLY
- > THIS DOCUMENT HAS BEEN PREPARED ACCORDING TO GUIDELINES AND RECOMMENDATIONS FOUND IN:
- 1. "HAZPAK PRODUCED BY THE WORK COVER AUTHORITY AND
- 2. THE AUSTRALIAN STANDARDS 4024.1/4/5 - 1996 "SAFEGUARDING OF MACHINERY - PART 1: GENERAL PRINCIPLES AUSTRALIAN STANDARD, AS/NZS 3760 IN-SERVICE SAFETY INSPECTION AND TESTING OF ELECTRICAL EQUIPMENT.

<p>"LIKELIHOOD LEVEL" REFERS TO THE PROBABILITY OF AN EVENT HAPPENING. THE FOLLOWING SCALE HAS BEEN USED TO DESCRIBE THE LIKELIHOOD OF A DEFINED RISK / HAZARD EVENT OCCURRING DURING NORMAL OPERATION OF THE EQUIPMENT. NOTE THAT LIKELIHOOD EVALUATION IS QUALITATIVE AND BASED ON BEST ESTIMATION VIA CONSULTATION AND EXPERIENCE:</p> <p>1. VERY LIKELY 2. LIKELY 3. UNLIKELY 4. VERY UNLIKELY</p>	<p>"CONSEQUENCE" REFERS TO THE SEVERITY OF INJURY CAUSED DUE TO AN EVENT OCCURRING, USING THE FOLLOWING SCALE AS DEFINED BY THE "HAZPAK" DOCUMENT:</p> <p>1. FATALITY = INJURIES RESULT IN DEATH 2. MAJOR = NORMALLY IRREVERSIBLE INJURIES 3. MINOR = REVERSIBLE INJURIES REQUIRING SEVERAL DAYS OFF 4. NEGIGIBLE = ABLE TO BE TREATED USING FIRST AID</p>	<p>"RISK LEVEL" REFERS TO THE SEVERITY OF A RISK BASED ON THE "LIKELIHOOD LEVEL" AND "INJURY LEVEL". INHERENTLY, AS THE CONSEQUENCE INCREASES IN SEVERITY, RISK INCREASES - EVEN WHEN LIKELIHOOD IS LOW - THE FOLLOWING SCALE HAS BEEN USED:</p> <p>1. HIGH = POTENTIAL DEATH, PERMANENT DISABILITY, OR MAJOR STRUCTURAL DAMAGE. 2. MEDIUM = POTENTIAL TEMPORARY, DISABILITY, OR MINOR STRUCTURAL DAMAGE. 3. LOW = POTENTIAL INCIDENT THAT HAS THE POTENTIAL TO CAUSE PERSONS TO REQUIRE FIRST AID.</p>
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