

# RISK ASSESSMENT

## COSHH - Descaling Chemicals

Document Reference

**PTS.RA.S60**

Activity	Hazards	Risks	UNCONTROLLED Risk Levels	Description of controls	CONTROLLED Risk Levels																																																																				
<p>The use of Descaling Chemicals to remove lime scale deposits from Catering Equipment dependant on water for their operation.</p> <p></p> <p><b>Irritant</b></p>	<p>Descaling Chemicals</p> <p>Toxic Vapours</p> <p>Corrosion</p>	<p><b>Ingestion</b> causing Poisoning, Internal chemical Burns and or Illness</p> <p><b>Contact</b> causing Eye Damage, Blindness or Skin Damage</p> <p>Asphyxia and or Lung Damage.</p> <p>Marking or Corrosion of soft materials such as aluminium</p>	<p><b>LIKELIHOOD</b></p> <table border="1"> <tr><td>Most Likely</td><td>5</td><td>High</td></tr> <tr><td>Likely</td><td>4</td><td>✓</td></tr> <tr><td>Possible</td><td>3</td><td>Medium</td></tr> <tr><td>Unlikely</td><td>2</td><td>Low</td></tr> <tr><td>Very Unlikely</td><td>1</td><td>Very Low</td></tr> </table> <p><b>SEVERITY</b></p> <table border="1"> <tr><td>Extreme</td><td>5</td><td>High</td></tr> <tr><td>Major</td><td>4</td><td>✓</td></tr> <tr><td>Moderate</td><td>3</td><td>Medium</td></tr> <tr><td>Minor</td><td>2</td><td>Low</td></tr> <tr><td>Negligible</td><td>1</td><td>Very Low</td></tr> </table> <p>Risk Score deduced by multiplying <i>Likelihood by Consequence</i></p> <table border="1"> <tr><td>Risk Score</td><td>16</td></tr> </table> <p>Less than or equal to 5      LOW Between 6 and 12      MEDIUM Above 12      HIGH</p> <table border="1"> <tr><td>UNCONTROLLED Risk Level</td><td>HIGH</td></tr> </table>	Most Likely	5	High	Likely	4	✓	Possible	3	Medium	Unlikely	2	Low	Very Unlikely	1	Very Low	Extreme	5	High	Major	4	✓	Moderate	3	Medium	Minor	2	Low	Negligible	1	Very Low	Risk Score	16	UNCONTROLLED Risk Level	HIGH	<ul style="list-style-type: none"> <li>ONLY competent engineer with appropriate Training &amp; Experience to use Descaling chemicals</li> <li>Engineer to adhere to General COSHH Risk Assessment <b>PTS.RA.S50 COSHH - General Control of Substances Hazardous to Health</b> in respect of transportation, storage, Ventilation use and disposal.</li> <li>Engineer to use PPE as detailed on the <b>PPE REQUIREMENTS SECTION</b> of this risk assessment particularly Goggles, Protective Clothing and Acid Proof Gloves as per <b>PTS.RA.S40 Safety</b></li> <li>Engineer to take great care not to spill descaling chemicals, onto either unsuitable metal surfaces or the floor, spillages to be cleaned up promptly following spillage.</li> <li>Engineer to avoid inhaling fumes by self and others, if inhaled individual to be removed to fresh air and medical attention sort as required.</li> <li>In the event of contact with eyes, the affected eye(s) to be irrigated with eye wash or water for a period of not less than 15 minutes, medical attention to be sort promptly.</li> <li>In the event of contact with Skin, the affected area is to be washed with clean water immediately.</li> <li>In the event of ingestion, the individual should drink copious amounts of clean water and <b>SEEK IMMEDIATE MEDICAL ATTENTION</b></li> </ul>	<p><b>LIKELIHOOD</b></p> <table border="1"> <tr><td>Most Likely</td><td>5</td><td>High</td></tr> <tr><td>Likely</td><td>4</td><td>Medium</td></tr> <tr><td>Possible</td><td>3</td><td>Low</td></tr> <tr><td>Unlikely</td><td>2</td><td>Very Low</td></tr> <tr><td>Very Unlikely</td><td>1</td><td>Very Very Low</td></tr> </table> <p><b>SEVERITY</b></p> <table border="1"> <tr><td>Extreme</td><td>5</td><td>High</td></tr> <tr><td>Major</td><td>4</td><td>✓</td></tr> <tr><td>Moderate</td><td>3</td><td>Medium</td></tr> <tr><td>Minor</td><td>2</td><td>Low</td></tr> <tr><td>Negligible</td><td>1</td><td>Very Low</td></tr> </table> <p>Risk Score deduced by multiplying <i>Likelihood by Consequence</i></p> <table border="1"> <tr><td>Risk Score</td><td>4</td></tr> </table> <p>Less than or equal to 5      LOW Between 6 and 12      MEDIUM Above 12      HIGH</p> <table border="1"> <tr><td>CONTROLLED Risk Level</td><td>LOW</td></tr> </table>	Most Likely	5	High	Likely	4	Medium	Possible	3	Low	Unlikely	2	Very Low	Very Unlikely	1	Very Very Low	Extreme	5	High	Major	4	✓	Moderate	3	Medium	Minor	2	Low	Negligible	1	Very Low	Risk Score	4	CONTROLLED Risk Level	LOW
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<p><b>FURTHER CONSIDERATIONS</b></p> <p>Engineer to apply signage stating '<b>DESCALE IN PROGRESS, DO NOT USE</b>' to dispensing tap to avoid inadvertent use by others.</p> <p>Engineer to remain in the vicinity of the appliance during the descale process.</p> <p>Engineer to pay particular attention to flushing the equipment following the Descale process to ensure that no descaling chemicals remains within the equipment which may cause a risk to users or any other person whatsoever.</p> <p>Engineer <b>NOT</b> to dispose of any neat descaler whatsoever into drains or water courses, empty containers to be disposed of through a specialist disposal company.</p>	<p><b>AFFECTED INDIVIDUALS</b></p> <table border="1"> <tr><td>PTS Personnel</td><td>✓</td></tr> <tr><td>Maintenance Personnel</td><td>✓</td></tr> <tr><td>Catering Staff</td><td>✓</td></tr> <tr><td>Customers</td><td>✓</td></tr> <tr><td>Visitors</td><td></td></tr> <tr><td>Delivery Personnel</td><td></td></tr> <tr><td>Others (specify)</td><td></td></tr> </table> <p><b>PPE REQUIREMENTS</b> as per <b>PTS.RA.S40</b></p> <table border="1"> <tr><td>Safety Boots EN 20345, S3 WR SRA. Protective Work Wear Clothing Safety Eye Goggles (EN166 1.B.3.4) Acid Proof Safety Gloves (BS EN 374-3:2003) Face Mask (FFP3) BS EN 166:2002.</td></tr> </table>		PTS Personnel	✓	Maintenance Personnel	✓	Catering Staff	✓	Customers	✓	Visitors		Delivery Personnel		Others (specify)		Safety Boots EN 20345, S3 WR SRA. Protective Work Wear Clothing Safety Eye Goggles (EN166 1.B.3.4) Acid Proof Safety Gloves (BS EN 374-3:2003) Face Mask (FFP3) BS EN 166:2002.																																																								
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**NB: This document and any amendments must be retained for a minimum of 5 years.**  
In the event of an incident involving an individual aged 18 years or less this documentation must be retained until the individual reaches 21 years of age, this requirement overrides the minimum 5 year rule.