

# COSHH Risk Assessment

## H001\_SELPHOS

Use: Acidic cleaner / toilet cleaner and descaler (Professional use only)

Physical Properties (9):	Classification (2.2)	Environmental:	Important:
 <p>Physical state: Liquid Appearance: Clear liquid Colour: Red / Red-brown</p> <p>Odour: Acidic (slight hydrochloric acid odour) pH: 1 (strongly acidic) Boiling point: <math>\geq 100^{\circ}\text{C}</math> Relative density: 1.06 Solubility: Soluble in water</p>	 <p><b>GHS05</b> Skin Corrosion Category 1 – H314 Serious Eye Damage Category 1 – H318 Signal Word: DANGER <b>Hazard Statement:</b> Causes severe skin burns and eye damage. <b>Contains:</b> Hydrochloric acid (5–10%) Phosphoric acid (1–5%) Alcohol alkoxyate (1–5%)</p>	<p>Not classified as hazardous to the aquatic environment.</p> <p>Avoid release to the environment as good practice.</p> <p>Collect spillages immediately.</p>	<p><b>Strong corrosive acid (pH 1).</b></p> <p><b>Causes severe burns to skin and serious eye damage.</b></p> <p><b>May cause respiratory irritation (acid vapours).</b></p> <p><b>Professional use only.</b></p> <p><b>Store locked up.</b></p>
STORAGE (7)			
Hazards During Storage:	Incompatible Materials:	Control Measures:	Action Required:
<ul style="list-style-type: none"> <li>Corrosive liquid.</li> <li>Avoid contact with skin and eyes.</li> <li>Store locked up.</li> <li>Keep container closed when not in use.</li> </ul>	<ul style="list-style-type: none"> <li>Strong bases (alkalis)</li> <li>Oxidising agents</li> <li>Chlorine-based bleaching agents</li> <li>Metals</li> </ul>	<ul style="list-style-type: none"> <li>Store in original container only.</li> <li>Keep upright.</li> <li>Store in a cool, well-ventilated area</li> <li>Segregate from alkalis, bleach and oxidisers.</li> <li>Store away from metals.</li> </ul>	<ul style="list-style-type: none"> <li>Inspect containers for leaks or damage.</li> <li>Ensure spill kit available.</li> <li>Ensure emergency eyewash accessible.</li> <li>Restrict access to trained staff only.</li> </ul>
Normal Use:	Good Practice Controls:	USAGE	Control Measures During Use:
<p>Mandatory PPE:</p> <ul style="list-style-type: none"> <li>Eye protection (EN 166 safety glasses or goggles)</li> </ul>	<ul style="list-style-type: none"> <li>Avoid contact with skin and eyes.</li> <li>Do not eat, drink or smoke when using.</li> </ul>	<p>Intended Use: Toilet and urinal descaling (neat)</p>	<ul style="list-style-type: none"> <li>Wear full PPE when handling concentrate.</li> <li>Apply carefully to avoid splashing.</li> <li>Do not mix with bleach (risk of hazardous gas release).</li> </ul>

<ul style="list-style-type: none"> <li>Chemical resistant gloves (EN 374 – nitrile recommended)</li> </ul> <p>Respiratory protection not required under normal controlled use but ensure good ventilation.</p>	<ul style="list-style-type: none"> <li>Wash hands thoroughly after handling.</li> <li>Remove contaminated clothing immediately and wash before reuse.</li> <li>Do not mix with bleach or alkaline products.</li> </ul>	<p>Engineering and maintenance cleaning/degreasing (1:10 dilution)</p>	<ul style="list-style-type: none"> <li>Avoid inhaling vapours.</li> <li>Ensure adequate ventilation.</li> <li>Do not use on acid-sensitive surfaces.</li> <li>Rinse surfaces after treatment where appropriate.</li> </ul>
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**FIRST AID MEASURES (4)**

<p><b>Inhalation:</b> Remove to fresh air and keep comfortable for breathing.</p>	<p><b>Skin Contact (BURNS):</b> Remove contaminated clothing immediately. Rinse skin with plenty of water or shower. Get medical advice/attention.</p>	<p><b>Eye Contact (EMERGENCY):</b> Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get immediate medical advice/attention.</p>	<p><b>Ingestion:</b> Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Get immediate medical advice/attention.</p>
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DISPOSAL	FIRE INFORMATION	TRANSPORT	AREAS WHERE IT SHOULD NOT BE USED
<p>Dispose of contents/container in accordance with local regulations.</p> <p>Use licensed waste contractor.</p> <p>European Waste Code: 20 01 29* (detergents containing dangerous substances).</p>	<p><b>Suitable extinguishing media:</b></p> <ul style="list-style-type: none"> <li>Carbon dioxide</li> <li>Dry powder</li> <li>Foam</li> </ul> <p><b>Special hazards:</b> Corrosive vapours may be produced in fire conditions.</p> <p>Firefighters should wear appropriate protective equipment and breathing apparatus.</p>	<p>UN 3264 – CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Class 8 Packing Group III Limited quantity: 5L Not classified as marine pollutant.</p>	<ul style="list-style-type: none"> <li>On chrome surfaces</li> <li>On stainless steel</li> <li>On aluminium</li> <li>On acid-sensitive surfaces (e.g. marble, limestone)</li> <li>Mixed with bleach or chlorine-based products</li> <li>On metal surfaces where corrosion may occur</li> <li>In confined spaces without adequate ventilation</li> <li>By untrained personnel</li> </ul>

<p><b>Risk Classification:</b></p>	 <p><b>Overall Risk: HIGH (Neat product)</b> Due to corrosive classification (H314). <b>Risk reduces to MODERATE</b> when diluted and control measures are followed.</p>
<p><b>Assessor: MRomano HSQE Manager</b></p>	<p><b>Date of Assessment: 06/02/2026</b>      <b>Review Date: 06/02/2027</b></p>