



## REFLEX™ Acid Sanitizer Concentrate

EPA Number: 63838-12

<b>Applications</b>	REFLEX™ is a new generation no-rinse one step acid sanitizer used in the dairy, food and beverage processing industry for CIP and COP pipeline, silo, tank and equipment cleaning and sanitizing processes. With regular use REFLEX™ will prevent the formation of milkstone, beerstone and lime scale deposits. Primarily for use on stainless steel and plastic materials. It is safe to store REFLEX™ in stainless steel tanks. Do not use on aluminum.								
<b>Properties</b>	REFLEX™ has a high oxidation potential and is very reactive. It exhibits excellent bactericidal and fungicidal activity against a wide range of microorganisms in cold or warm water. REFLEX™ contains no phosphates. Product is stable for a minimum of 6 months under normal conditions. It ultimately degrades to nitrogen, oxygen, water, and acetic acid (vinegar).								
<b>Features</b>	<ul style="list-style-type: none"><li>• No phosphates</li><li>• No rinse needed on food/beverage contact surfaces</li><li>• Peroxygen chemistry leaves no residues</li><li>• Nitric acid becomes nitrate in wastewater</li><li>• For land applied discharges, the nitric component reverts to nitrogen</li><li>• Reduces CIP process times and reduces water use</li><li>• Economical use at 1 fl oz per 6 gal of hard water.</li></ul>								
<b>Chemical Composition</b>	REFLEX™ is an equilibrium mixture of peracetic acid, hydrogen peroxide, acetic acid, nitric acid, proprietary ingredients, and water. <table><tr><td>Peracetic acid (% wt.)</td><td>6.0-6.6</td></tr><tr><td>H<sub>2</sub>O<sub>2</sub> (% wt.)</td><td>22.0-24.4</td></tr><tr><td>Total acidity</td><td>&gt;18% as nitric acid</td></tr><tr><td>Phosphates (as PO<sub>4</sub>)</td><td>None</td></tr></table>	Peracetic acid (% wt.)	6.0-6.6	H <sub>2</sub> O <sub>2</sub> (% wt.)	22.0-24.4	Total acidity	>18% as nitric acid	Phosphates (as PO <sub>4</sub> )	None
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<b>Physical Properties</b>	<table><tr><td>Density 20°C (68°F), (g/mL)</td><td>1.20</td></tr><tr><td>pH (10% solution), 20°C (68 °F)</td><td>&lt;1</td></tr><tr><td>Flash Point (DIN 51584)</td><td>&gt; 98° C (207° F)</td></tr><tr><td>Freezing Point</td><td>&lt; -12° C (10° F)</td></tr></table>	Density 20°C (68°F), (g/mL)	1.20	pH (10% solution), 20°C (68 °F)	<1	Flash Point (DIN 51584)	> 98° C (207° F)	Freezing Point	< -12° C (10° F)
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<b>Appearance</b>	Clear, colorless liquid (pungent vinegar-like odor)								
<b>Storage</b>	<b><u>The REFLEX™ container must be stored in an upright position.</u></b> The storage area should be well ventilated and <b><u>shaded from sunlight</u></b> as well as protected from sources of radiant heat. Contamination of the product, especially metal ions (such as brass, copper or iron) and alkali, must be avoided.								
<b>Shelf Life</b>	At least 6 months without notable losses of active oxygen if stored properly.								
<b>Packaging</b>	5 gal (45 lb), 52 gal (520 lb), 300 gal (3100 lb). All containers HDPE.								
<b>Transport (DOT)</b>	Oxidizing Liquid, corrosive, n.o.s. (hydrogen peroxide and nitric acid, stabilized) 5.1 (8), UN 3098, PGII								

ENVIRO TECH CHEMICAL SERVICES, INC. 500 Winmoore Way, Modesto, CA 95358 (209) 581-9576

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