



**REFLEX**  
EPA # 63838-12

TECHNICAL  
DATA

## APPLICATIONS

**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.

## PROPERTIES

**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).

## FEATURES

- No phosphates
- No rinse needed on food/beverage contact surfaces
- Peroxygen chemistry leaves no residues
- Nitric acid becomes nitrate in wastewater
- For land applied discharges, the nitric component reverts to nitrogen
- Reduces CIP process times and reduces water use
- Economical use at 1 fl oz per 6 gal of hard water.

## CHEMICAL COMPOSITION

**REFLEX** is an equilibrium mixture of peracetic acid, hydrogen peroxide, acetic acid, nitric acid, proprietary ingredients, and water.

Peracetic acid (% wt.)	6.0-6.4
H <sub>2</sub> O <sub>2</sub> (% wt.)	22.5-23.7
Nitric Acid Conc.	6-10%
Phosphates (as PO <sub>4</sub> )	None
Density 20°C (68°F), (g/mL)	1.16-1.20
pH (10% solution), 20°C (68 °F)	<1
Flashpoint (°C)	>98°C (207° F)
Freezing Point	<-12°C (10° F)

## PHYSICAL PROPERTIES

## APPEARANCE

Clear, colorless liquid (pungent vinegar-like odor)

## STORAGE

The **REFLEX** container must be **stored in an upright position**. The storage area should be well ventilated and **shaded from sunlight** as well as protected from sources of radiant heat. Store this product at temperatures where the bulk liquid will not exceed 86°F / 30°C. Contamination of the product, especially metal ions (such as brass, copper or iron) and alkali, must be avoided.

## SHELF LIFE

At least 6 months without notable losses of active oxygen if stored properly.

## PACKAGING

5 gal (40 lb), 53 gal (490 lb), and 300 gal (2780 lb).  
Available in HDPE plastic pails, drums, and totes.

## TRANSPORT(DOT)

Oxidizing liquid, corrosive, n.o.s. (contains hydrogen peroxide and peroxyacetic acid mixture, stabilized), 5.1 (8), UN 3098, PG II

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