



Tech Data: REFLEX™ Acid Sanitizer Concentrate

EPA Number: 63838-12

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 carbon dioxide.

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.)	5.7-6.6
H ₂ O ₂ (% wt.)	21-24
Total acidity	>18% as nitric acid
Phosphates (as PO ₄)	None
Stabilizer	Present

Physical Properties

Density 20°C (68°F), (g/ml)	1.2
pH (10% solution, 20°C (68 °F)	<1
Flash Point °C (°F) DIN 51584	>98° (207)
Freezing Point °C (°F)	-18 (0)

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. 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 pail (45 lb), 52 gal drums (520 lb), 3100 lb totes, bulk.

Transport (DOT)

Oxidizing Liquid, corrosive, n.o.s. (hydrogen peroxide and nitric acid, stabilized)
5.1 (8), UN 3098, PGII

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