



# Flexicid™ ARS-70

Reduced Corrosion Replacement for Sulfuric Acid

## Overview

- Lower corrosion replacement for sulfuric acid
- Used in Hard Surface Cleaners for improved cleaning of hard water stains and build-up
- No heat of dilution (non-exothermic)
- Low fuming
- Phosphate-free
- Low BOD and COD
- Safer to handle than many conventional acids
- pH of < 1.0 for quick and easy pH reduction

## Applications

- pH adjustment of process treatment baths
- Acid for paper-making processes
- Alkaline waste stream neutralizations
- Acidic Hard Surface Cleaners
- Bathroom, toilet bowl, tub and tile cleaners
- Economical and efficient pH adjustment
- Low pH solubilizer
- Concrete and masonry preparation
- Efflorescence remover
- Scale removal
- Ammonia neutralizer for livestock and poultry wastes

## Technical Information

Flexicid ARS-70 is a strong acid which can be used to replace sulfuric acid in certain applications such as pH adjustment of process treatment baths, alkaline waste stream neutralizations, and acid for paper-making processes. This product contains a corrosion inhibitor.

## Formulary

Flexicid ARS-70 effectively replaces sulfuric acid in most applications. It has very low corrosivity, has zero heat of dilution, and it can be mixed into water or have water mixed into it. Flexicid ARS-70 does not fume. Phosphate-free acid cleaners can be formulated using this product.

As with all acid products, care should be taken to avoid prolonged contact with metals in order to prevent damage or discoloration. Limit the surface exposure time and fully rinse surfaces after use. Do not use on polished marble or other acid-sensitive surfaces.

## Typical Properties

PROPERTY	VALUE
Appearance	Clear liquid, colorless to light amber
Odor	Mild
Water solubility	Soluble
pH	< 1.0
Density	1.46 to 1.50 g/ml
Normality	16.0 to 16.6
Boling Point	est. 100 °C
Flash point	> 93° C (199° F)
Storage	Stable to freezing
Shelf life	12 months

## Packaging and Handling

Flexicid ARS-70 is available in:  
275 gallon totes (Net Wt. 3000 lbs)  
55 gallon plastic drums (Net Wt. 600 lbs)  
5 gallon pails (Net Wt. 50 lbs).

Refer to the Safety Data Sheet (SDS) for information on the safe use, handling, and disposal of this product. Store in a well-ventilated place and keep container tightly closed.

DOT Classification: Corrosive Liquid, Acidic, Organic, n.o.s. (contains carbamide hydrogen sulfate). Refer to SDS for additional information. Not regulated for ground shipments in the U.S. 49 CFR 173.154 (d)(1). UN 3265 for Sea Transport (IMDG) and Air Transport (ICAO/IATA).

Whether you're looking for a replacement product or an ingredient for a specific attribute, give us a call. We can provide assistance based upon your particular formulation requirements and composition; please feel free to contact us.

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