

**PRODUCT DESCRIPTION**

Aristonate® S-5000 is a high molecular weight first intent sodium sulfonate with good emulsification properties, corrosion inhibition and a low foam profile. Aristonate® S-5000 is well suited for semi-synthetic metalworking and lubrication formulations incorporating paraffinic oils.

**CHEMICAL NAME**

Proprietary Sodium Alkyl Aryl Sulfonate (Synthetically Derived Petroleum Sulfonate)

**TYPICAL PROPERTIES**

Appearance @ 25°C	Viscous dark amber liquid
Odor	Slight
Active (Wt. %)	60.0 min
Sodium Sulfate (Wt. %)	0.75 max
Water (Wt. %)	1.0 max
% Volatile by Volume	<1.0
Molecular Weight	500
Density (lbs/gal)	8.5
pH (10% solution)	10.0
Solubility in Water	Dispersible

**APPLICATIONS****Soluble Oils**

Aristonate® S-5000 is a very efficient emulsifier for paraffinic oils when combined with oleic acid, which can be further formulated into low foaming soluble oils. These soluble oils provide excellent ferrous corrosion inhibition.

**Semi-Synthetics**

Aristonate® S-5000 is an excellent emulsifier of paraffinic oils and offers good corrosion inhibition in semi-synthetic formulations. Additional additives, such as amides, chlorinated paraffins, sulfurized olefins and phosphate esters can be easily incorporated into emulsifier packages based on this sulfonate.

**PERFORMANCE**

Aristonate® S-5000 is produced via Pilot's proprietary ice-cold sulfonation process, which offers unmatched consistency and performance; reducing the need for emulsifier package adjustments due to quality variations. Aristonate® S-5000 generates significantly lower foam levels than other commercially available sulfonates.

**ADVANTAGES**

Aristonate® S-5000 is compatible with a wide range of secondary emulsifiers, soaps, coupling agents, bactericides, antioxidants and corrosion inhibitors. Has improved handling and storage characteristic over natural sulfonates of similar molecular weight.

**STORAGE & HANDLING**

Employ normal safety precautions (i.e. gloves and safety goggles) when handling. Avoid eye and prolonged skin contact. Wash thoroughly after handling material. Warm material to 110 - 120°F with agitation before using. Do not store drums near open flames or strong oxidants. Store containers at temperatures above 50° F. Avoid excessive heat. Pilot Chemical recommends that bulk storage of Aristonate® S-5000 should be in iron or steel tanks with heat and agitation. Please refer to the MSDS before handling Aristonate® S-5000.

**REGULATORY**

Aristonate® S-5000 is listed with the following country chemistry inventories: USA - TSCA, Canadian - DSL, EEC - EINECS, Japanese - ENCS, Australian - AICS, and Korean - ECL.

**PACKAGING**

Aristonate® S-5000 is available in 55-gallon open head steel drums (net weight 420lb/191kg); bulk quantities are available by tank car or tank truck.

**See starting formulas and additional product information, at [www.pilotchemical.com](http://www.pilotchemical.com)**

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