

# Product Data Sheet

## NA-SUL<sup>®</sup> CA-1089



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**NA-SUL CA-1089** is a premium rust inhibitor for petroleum and synthetic lubricants, rust preventive fluids and metalworking specialties. It provides outstanding non-staining properties with excellent demulsibility and filterability, both dry and wet. It is compatible with a wide range of additives and base stocks.

### CHEMICAL

**COMPOSITION:** Calcium alkylnaphthalenesulfonate/carboxylate complex in light mineral oil.

**APPEARANCE:** Clear brown viscous liquid.

### TYPICAL

<b>PROPERTIES:</b>	Calcium Content	2.3%
	Viscosity @ 40°C (ASTM D445, DIN 51 550)	2500 mm <sup>2</sup> /s (cSt)
	Viscosity @ 100°C (ASTM D445, DIN 51 550)	36 mm <sup>2</sup> /s (cSt)
	Density @ 15.6°C (ASTM D4052)	0.96 g/ml
	Weight Per Gallon @ 25°C	8.0 lbs
	Flash Point, COC (ASTM D92, DIN 51 376)	165°C (329°F)

Note: The above analytical data are not specifications.

	<u>Typical Treat Levels</u>
<b>APPLICATIONS:</b> Hydraulic Fluids (HF-0, HF-2)	0.05% - 0.5%
Circulating Oils	0.05% - 1.0%
Paper Machine Oils	0.25% - 1.0%
Rust Preventives	1.0% - 15%
Dewatering Fluids	1.0% - 10%
Greases	0.50% - 3.0%

**NA-SUL CA-1089** can be used in a wide variety of industrial lubricant applications where excellent rust protection, filterability and water resistance are desired. In rust preventive applications, it is particularly useful for coiled steel or stacked parts because of its outstanding non-staining properties. **NA-SUL CA-1089** is highly recommended for use in hydraulic fluids meeting the Parker Hannifin (Denison) HF-0 specification. **NA-SUL CA-1089** is also ideally suited for formulating paper machine oils and circulating oils where good filterability, anticorrosion, thermal stability and demulsification properties are required.

**ADVANTAGES:**

- \* Excellent rust inhibitor with outstanding demulsification
- \* Excellent non-staining properties
- \* Excellent filterability, both dry and wet
- \* Excellent thermal and hydrolytic stability
- \* Excellent solubility in highly paraffinic base stocks
- \* Resists gelling when contaminated with water

(see reverse side)

## NA-SUL<sup>®</sup> CA-1089

**TEST RESULTS:** Technical reports are available from King Industries and can be requested by contacting the offices shown below.

**SOLUBILITY:** Soluble in petroleum and synthetic lubricant base stocks and most common solvents. Insoluble in water. However, it is recommended to verify the solubility in the base oils used and the compatibility with other additives.

**STANDARD PACKAGING:** 420 lbs (191 kg) closed head drum.

**STORAGE CONDITIONS:** Store in a cool, dry place away from any direct source of heat and moisture. Maximum recommended storage temperature: 46°C (115°F)

**SHELF LIFE:** Best if used within 3 years from date of manufacture.

**HANDLING:** Avoid all personal contact. Observe good personal hygiene. For additional information, it is advised to consult the Safety Data Sheet (SDS) for **NA-SUL CA-1089**.

**REGISTRATION:** Please refer to Section 15 of the Safety Data Sheet for information.

For Samples or Technical Service, contact King Industries or your King representative.

### Global Headquarters

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