

# Product Data Sheet



## NA-SUL<sup>®</sup> CA-HT3

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**NA-SUL CA-HT3** is a high performance rust and corrosion inhibitor offering exceptional rust protection with outstanding high temperature stability and good demulsibility.

### CHEMICAL

**COMPOSITION:** Calcium dinonylnaphthalenesulfonate/carboxylate in light mineral oil.

**APPEARANCE:** Clear brown viscous liquid.

### TYPICAL

<b>PROPERTIES:</b>	Calcium Content	2.5%
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	1335 mm <sup>2</sup> /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	50 mm <sup>2</sup> /s (cSt)
	Density @ 15.6°C (ASTM D 4052)	0.98 g/ml
	Weight Per Gallon @ 25°C	8.2 lbs
	Flash Point, COC (ASTM D 92, DIN 51 376)	165°C (329°F)

Note: The above analytical data are not specifications.

	<u>Typical Treat Levels</u>
<b>APPLICATIONS:</b> Rust Preventive Fluids	1.00% - 15.0%
Hydraulic Fluids	0.05% - 0.5%
Circulating Oils	0.05% - 1.0%
Paper Machine Oils	0.25% - 1.0%
Greases	0.50% - 3.0%
Industrial and Automotive Gear Oils	0.10% - 1.0%

**NA-SUL CA-HT3** is an excellent rust and corrosion inhibitor when used in a variety of petroleum and synthetic lubricants. **NA-SUL CA-HT3** is highly recommended for applications where barium containing additives are not desired and generally, it outperforms barium sulfonates in rust preventive formulations. It also performs effectively in both acidic and basic environments and exhibits good high temperature stability. **NA-SUL CA-HT3** is ideally suited for formulating hydraulic oils, paper machine oils, circulating oils and gear oils where good anticorrosion and thermal stability as well as outstanding demulsification properties are required.

**ADVANTAGES:**

- \* **Excellent rust inhibitor**
- \* **Outstanding demulsibility**
- \* **Excellent thermal and oxidative stability**
- \* **Easy handling, no melting required**
- \* **Low odor, no characteristic petroleum oxidate odor**
- \* **Excellent solubility in highly paraffinic base stocks**

(see reverse side)

## NA-SUL<sup>®</sup> CA-HT3

**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:** 440 lbs (200 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 the date of manufacture.

**HANDLING:** Avoid all personal contact. Observe good personal hygiene. For additional information, it is advised to consult the Material Safety Data Sheet (MSDS) for **NA-SUL CA-HT3**.

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

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

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