Product Data Sheet





0.10% - 1.0%

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NA-SUL CA-HT3 is a high performance rust inhibitor with outstanding high temperature stability and good demulsibility. Contamination with large amounts of water should be avoided¹ (e.g. rust preventive dewatering fluids).

CHEMICAL COMPOSITION: APPEARANCE:	Calcium dinonyInaphthalenesulfonate/carboxyla Clear brown viscous liquid.	ate in light mineral oil.
TYPICAL PROPERTIES:	Calcium Content Viscosity @ 40°C (ASTM D 445, DIN 51 550) Viscosity @ 100°C (ASTM D 445, DIN 51 550) Density @ 15.6°C (ASTM D 4052) Weight Per Gallon @ 25°C Flash Point, COC (ASTM D 92, DIN 51 376)	2.5% 1335 mm ² /s (cSt) 50 mm ² /s (cSt) 0.98 g/ml 8.2 lbs 165°C (329°F)
	Note: The above analytical data are not specifications.	
APPLICATIONS:	Rust Preventive Fluids Hydraulic Fluids Circulating Oils Paper Machine Oils Greases	<u>Typical Treat Levels</u> 1.00% - 15.0% 0.05% - 0.5% 0.05% - 1.0% 0.25% - 1.0% 0.50% - 3.0%

NA-SUL CA-HT3 is an excellent rust inhibitor 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 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

- * Very good demulsibility
- * Excellent thermal and oxidative stability
- * Easy handling, no melting required

Industrial and Automotive Gear Oils

- * Low odor, no characteristic petroleum oxidate odor
- * Excellent solubility in highly paraffinic base stocks

(see reverse side)

NA-SUL[®] 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 Safety Data Sheet (SDS) for **NA-SUL CA-HT3**.

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

NA-SUL CA-HT3 has an acid value, which can result in the formation of gels or other unwanted by-products when contaminated with alkaline cleaners, metalworking fluids, or other alkaline process chemicals. If contaminated with significant amounts of water, a film or gel can gradually develop at the interface between the organic layer containing **NA-SUL CA-HT3** and the aqueous layer. If testing shows incompatibility with alkaline chemicals that are likely to contaminate **NA-SUL CA-HT3** solutions or if significant, prolonged water contact is probable, **NA-SUL CA-HT3**.

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

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