

Product Data Sheet

NA-SUL[®] CA-1082



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NA-SUL CA-1082 is a high performance liquid rust and corrosion inhibitor for rust preventives and lubricants. It offers excellent solubility in highly paraffinic oils and polyalphaolefin (PAO). **NA-SUL CA-1082** is of moderate viscosity and may be able to be cold blended into oils. This results in lower energy cost and faster processing. **Contact with alkaline materials, cleaners or metalworking fluids may cause gelling of NA-SUL CA-1082. Compatibility tests should be carried out in order to identify any negative interactions.**

CHEMICAL

COMPOSITION: Calcium dinonylnaphthalenesulfonate/carboxylate in light mineral oil.

APPEARANCE: Clear brown moderate viscosity liquid.

TYPICAL

PROPERTIES:	Calcium Content	1.4%
	Acid Number (ASTM D974)	100 mg KOH/g
	Viscosity @ 40°C (ASTM D445, DIN 51550)	795 mm ² /s (cSt)
	Viscosity @ 100°C (ASTM D445, DIN 51550)	38 mm ² /s (cSt)
	Density @ 15.6°C (ASTM D4052)	0.98 g/ml
	Weight Per Gallon @ 25°C	8.2 lbs
	Flash Point, COC (ASTM D92, DIN 51376)	165°C (329°F)
	Moisture Content (ASTM E 1064)	< 0.1%

Note: The above analytical data are not specifications.

	<u>Typical Treat Levels</u>
APPLICATIONS:	
Rust Preventive Fluids	1.00% - 15.0%
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-1082 is a highly effective liquid rust and corrosion inhibitor when used in a variety of petroleum and synthetic lubricants. It outperforms most additive systems containing wax or other high melting materials in Salt Fog testing (ASTM B 117). It has excellent solubility in base fluids such as highly processed paraffinic oils and PAO, although rust prevention is best in naphthenic oils or less highly refined paraffinic oils or solvents. It resists gelling when exposed to water and therefore can be used in high moisture applications such as paper machine oils and rust preventives associated with wet parts. Contamination with metalworking fluids may cause gelling. Compatibility with other process chemicals should also be verified prior to use.

(see reverse side)

NA-SUL[®] CA-1082

ADVANTAGES:

- * Excellent rust inhibitor
- * Good demulsibility
- * Free flowing liquid, no melting required
- * Low odor, does not contain petroleum oxidates
- * Excellent solubility in highly paraffinic base oils and PAO
- * Resists gelling in the presence of bulk water

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 sources 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-1082**.

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.

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