

# Product Data Sheet



## NA-SUL<sup>®</sup> CA-1082 (Formerly KX1082)

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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). **The acid value of NA-SUL CA-1082 can result in the formation of gels or other unwanted by-products when contaminated with alkaline cleaners, metalworking fluids, or other alkaline process chemicals. Compatibility test 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

<b>PROPERTIES:</b>	Calcium Content	1.4%
	Acid Number (ASTM D 4739)	100 mg KOH/g
	Viscosity @ 40°C (ASTM D 445, DIN 51550)	795 mm <sup>2</sup> /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51550)	38 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 51376)	165°C (329°F)
	Moisture Content (ASTM E 1064)	< 0.1%

Note: The above data are not specifications.

	<u>Typical Treat Levels</u>
<b>APPLICATIONS:</b> 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<sup>®</sup> 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
- \* Non-staining on steel

**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:** Not determined.

**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-1082**.

**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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