

Product Data Sheet

NA-SUL[®] CA-1122



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NA-SUL CA-1122 is a high performance liquid rust and corrosion inhibitor for rust preventives and lubricants. **NA-SUL CA-1122** offers excellent solubility in highly paraffinic oils, polyalphaolefins (PAO), and many esters and vegetable oils. It has a low viscosity and does not contain wax, resulting in low odor and blending without adding heat. Contamination with alkaline materials or large amounts of water should be avoided¹.

CHEMICAL

COMPOSITION: Calcium dinonylnaphthalenesulfonate/carboxylate in light mineral oil.

APPEARANCE: Clear brown low viscosity liquid.

TYPICAL

PROPERTIES:	Calcium Content	2.4%
	Acid Number (ASTM D974)	45 mg KOH/g
	Viscosity @ 100°C (ASTM D445, DIN 51550)	28 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%
Greases	0.50% - 3.0%
Industrial and Automotive Gear Oils	0.10% - 1.0%

NA-SUL CA-1122 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, PAO, and vegetable oils.

ADVANTAGES:

- * **Excellent rust inhibitor**
- * **Free flowing liquid, no melting required**
- * **Low odor, does not contain petroleum oxidates**
- * **Excellent solubility in highly paraffinic base oils and PAO**

(see reverse side)

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- 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 sources of heat and moisture. Maximum recommended storage temperature: 46°C (115°F)
- SHELF LIFE:** 3 years in unopened containers. **NA-SUL CA-1122** may develop a skin if containers are left open in high humidity.
- 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-1122**.
- REGISTRATION:** Please refer to Section 15 of the Safety Data Sheet for information.

¹ **NA-SUL CA-1122** 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-1122** and the aqueous layer. If testing shows incompatibility with alkaline chemicals that are likely to contaminate **NA-SUL CA-1122** solutions, or if significant, prolonged water contact is probable, **NA-SUL CA-1089** should be considered as the rust preventive additive in place of **NA-SUL CA-1122**.

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

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