

NA-SUL[®] CA/W1146



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NA-SUL CA/W1146 is a liquid, wax containing rust preventive additive specifically designed for formulating rust preventive fluids for use in harsh environments, such as salt fog exposure. It is also recommended for use in less demanding applications such as high humidity or normal indoor storage. Contamination with alkaline materials or large amounts of water should be avoided¹.

CHEMICAL

COMPOSITION: Calcium alkylarylsulfonate/carboxylate and petroleum oxidates.

APPEARANCE: Viscous, clear brown liquid.

 PROPERTIES:
 Calcium Content Acid Number (ASTM D974)
 2.0%

 Viscosity @ 100°C (ASTM D445, DIN 51550)
 350 mm²/s (cSt)

 Density @ 25°C (ASTM D4052)
 0.97 g/ml

 Weight Per Gallon @ 25°C
 8.1 lbs

 Flash Point, COC (ASTM D92, DIN 51376)
 >160°C (>320°F)

Note: The above analytical data are not specifications.

		<u>Typical Treat Levels</u>
APPLICATIONS:	Slushing Oils and Rust Preventive Fluids	2% - 25%

NA-SUL CA/W1146 shows outstanding rust and corrosion resisting properties when exposed to harsh environments, such as salt fog. NA-SUL CA/W1146 has much improved solubility in highly paraffinic oils compared to other wax containing additives. NA-SUL CA/W1146 forms extremely hydrophobic thin films giving superior metal protection in harsh salt environments as well as in 100% humidity conditions. It is recommended to check rust preventive fluids based on NA-SUL CA/W1146 for compatibility with chemicals that may contaminate the fluid in actual use. This is particularly important for highly alkaline contaminants.

- ADVANTAGES: * Excellent rust and corrosion inhibitor
 - * Improved solubility
 - * Excellent salt fog protection
- **TEST RESULTS:** Technical reports are available from King Industries and can be requested by contacting the offices shown on the next page.

(see reverse side)

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- **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. Replacement of up to one half of **NA-SUL CA/W1146** with **NA-SUL 729** may substantially improve solubility in some fluids with little loss of performance.
- STANDARD
- **PACKAGING:** 430 lbs (195 kg) open 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/W1146**.

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

¹ NA-SUL CA/W1146 has an acid value, which can result in the formation of gels or other unwanted byproducts 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/W1146 and the aqueous layer. If testing shows incompatibility with alkaline chemicals that are likely to contaminate NA-SUL CA/W1146 solutions or if significant, prolonged water contact is probable, NA-SUL CA/W1177 should be considered as the rust preventive additive in place of NA-SUL CA/W1146.

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

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