

# Product Data Sheet

## NA-SUL<sup>®</sup> 729



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**NA-SUL 729** is a premium rust inhibitor for petroleum and synthetic lubricants, greases, rust preventive fluids and metalworking specialties. It provides excellent demulsibility and filterability, both dry and wet, and is compatible with a wide range of additives and base stocks. It is also a good dispersant for solids used in lubricants.

### CHEMICAL

**COMPOSITION:** Neutral calcium dinonylnaphthalenesulfonate in light mineral oil.

**APPEARANCE:** Clear brown viscous liquid.

### TYPICAL

<b>PROPERTIES:</b>	Calcium Content	2.1%
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	3300 mm <sup>2</sup> /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	77 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 51 376)	165°C (329°F)

Note: The above analytical data are not specifications.

		<u>Typical Treat Levels</u>
<b>APPLICATIONS:</b>	Oil & Solvent Based Rust Preventive Fluids	1.00% - 15.0%
	Hydraulic Fluids (HF-0, HF-2)	0.05% - 0.5%
	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 729** is used in a wide variety of industrial lubricant applications where excellent rust protection, filterability and water resistance are required. It imparts outstanding demulsibility and is unique in that the water separation improves as the **NA-SUL 729** concentration is increased which allows high treat levels in applications with the most severe rust protection requirements. **NA-SUL 729** is highly recommended for use in hydraulic fluids meeting the Denison HF-0 specification. It is also widely used as the rust inhibitor in most types of greases. In rust preventive fluids, it exhibits excellent synergism with other functional additives such as oxidates, waxes and carboxylates. **NA-SUL 729** can also be used in emulsifiable rust preventive fluids.

Calcium dinonylnaphthalenesulfonate is also available in alternative diluents, including PAO and esters for synthetic and environmentally acceptable lubricants and in mineral spirits and waxes.

(see reverse side)

## NA-SUL<sup>®</sup> 729

- ADVANTAGES:**
- \* Excellent rust inhibitor with outstanding demulsification properties
  - \* Excellent filterability, both dry and wet
  - \* Excellent thermal and hydrolytic stability
  - \* Excellent solubility in highly paraffinic base stocks
  - \* Excellent compatibility with other additives
  - \* Highly effective dispersant for solid additives, e.g., MoS<sub>2</sub> and PTFE
- 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 Material Safety Data Sheet (MSDS) for **NA-SUL 729**.
- 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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