

Product Data Sheet

NA-SUL[®] BSN



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NA-SUL BSN is a premium non-staining rust inhibitor for petroleum and synthetic lubricants, greases, rust preventive fluids and metalworking specialties. It provides excellent demulsibility and resistance to the negative effects of water and is compatible with a wide range of additives and base oils.

CHEMICAL

COMPOSITION: Neutral barium dinonylnaphthalenesulfonate in light mineral oil.

APPEARANCE: Clear brown viscous liquid.

TYPICAL

PROPERTIES:	Barium Content	6.6%
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	2100 mm ² /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	53 mm ² /s (cSt)
	Density @ 15.6°C (ASTM D 4052)	1.02 g/ml
	Weight Per Gallon @ 25°C	8.5 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>
APPLICATIONS: Oil & Solvent Based Rust Preventive Fluids	1.00% - 15.0%
Hydraulic Fluids	0.05% - 0.5%
Circulating Oils	0.05% - 1.0%
Compressor Oils	0.10% - 0.5%
Paper Machine Oils	0.25% - 1.0%
Way Lubricants	0.10% - 0.5%
Greases	0.50% - 3.0%
Industrial and Automotive Gear Oils	0.10% - 1.0%

NA-SUL BSN is used in a wide variety of industrial lubricant applications where excellent rust protection and water resistance are required. It imparts outstanding demulsibility and is unique in that the water separation improves as the **NA-SUL BSN** concentration is increased which allows high treat levels for severe rust protection requirements. **NA-SUL BSN** is the most widely used rust inhibitor in all types of greases. In rust preventive fluids, the excellent resistance to metal staining is an added feature. **NA-SUL BSN** is also well suited for premium hydraulic oil formulations.

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

(see reverse side)

- ADVANTAGES:**
- * **Excellent non-staining rust inhibitor**
 - * **Outstanding demulsibility at all additive levels**
 - * **Excellent thermal stability**
 - * **Excellent compatibility with other additives**
 - * **Outstanding synergy with other antirust additives**
 - * **Excellent solubility in a wide range of base stocks**

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: 450 lbs (205 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 BSN**.

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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