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: APPEARANCE:	Neutral barium dinonylnaphthalenesulfonate in lig Clear brown viscous liquid.	ght mineral oil.
TYPICAL PROPERTIES:	Barium Content Viscosity @ 40°C (ASTM D445, DIN 51 550) Viscosity @ 100°C (ASTM D445, DIN 51 550) Density @ 15.6°C (ASTM D4052) Weight Per Gallon @ 25°C Flash Point, COC (ASTM D92, DIN 51 376) Note: The above analytical data are not specif	6.6% 2100 mm²/s (cSt) 55 mm²/s (cSt) 1.02 g/ml 8.5 lbs 165°C (329°F)
APPLICATIONS:	Oil & Solvent Based Rust Preventive Fluids Hydraulic Fluids Circulating Oils Compressor Oils Paper Machine Oils Way Lubricants Greases Industrial and Automotive Gear Oils	Typical Treat Levels 1.00% - 15.0% 0.05% - 0.5% 0.05% - 1.0% 0.10% - 0.5% 0.25% - 1.0% 0.10% - 0.5% 0.50% - 3.0% 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.

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 (204 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 Safety Data Sheet (SDS) for **NA-SUL BSN.**
- **REGISTRATION:** Please refer to Section 15 of the Safety Data Sheet for information.

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

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