

# Product Data Sheet

## NA-SUL<sup>®</sup> BSN-HT



Science Road  
Norwalk, CT 06852  
(800) 431-7900  
Fax: (203) 866-0425  
E-Mail: lad@kingindustries.com

**NA-SUL BSN-HT** is a high performance rust and corrosion inhibitor offering exceptional rust protection with outstanding high temperature stability and good demulsibility in petroleum and synthetic lubricants.

### CHEMICAL

**COMPOSITION:** Barium dinonylnaphthalenesulfonate/carboxylate in light mineral oil.

**APPEARANCE:** Clear brown viscous liquid.

### TYPICAL

<b>PROPERTIES:</b>	Barium Content	8.7%
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	3100 mm <sup>2</sup> /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	75 mm <sup>2</sup> /s (cSt)
	Density @ 15.6°C (ASTM D 4052)	1.05 g/ml
	Weight Per Gallon @ 25°C	8.7 lbs
	Flash Point, COC (ASTM D 92, DIN 51 376)	175°C (347°F)

Note: The above analytical data are not specifications.

	<u>Typical Treat Levels</u>
<b>APPLICATIONS:</b> Rust Preventive Fluids	1.00% - 15.0%
Hydraulic Fluids	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 BSN-HT** is an excellent rust and corrosion inhibitor when used in a variety of petroleum and synthetic lubricants. In static high temperature aging tests, **NA-SUL BSN-HT** provides up to 100°C improvement in thermal stability over conventional sulfonates in polyol esters for aviation oils. **NA-SUL BSN-HT** is ideally suited for formulating hydraulic oils, circulating oils and gear oils where good anticorrosion, hydrolytic and thermal stability as well as outstanding demulsification properties are required. **NA-SUL BSN-HT** also exhibits outstanding additive compatibility and reduced moisture sensitivity.

**ADVANTAGES:**

- \* **Excellent rust inhibitor**
- \* **Outstanding demulsibility**
- \* **Excellent thermal and oxidative stability**
- \* **Excellent solubility in highly paraffinic base stocks**
- \* **Easy handling**
- \* **Low odor**

(see reverse side)

# NA-SUL<sup>®</sup> BSN-HT

**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 BSN-HT**.

**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.

King Industries, Inc.  
Science Road  
Norwalk, CT 06852-0588  
Tel: 203-866-5551  
Fax: 203-866-0425  
E-mail: LAD@kingindustries.com

King Industries International, Inc.  
Noordkade 64, 2741 EZ Waddinxveen  
The Netherlands  
Tel: +31-182-631360  
Fax: +31-182-621002  
E-mail: info@kingintl.nl

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