

Product Data Sheet

NA-SUL[®] 420



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NA-SUL 420 is an easily emulsifiable rust preventive concentrate ideally suited for the protection of metal parts during storage.

CHEMICAL

COMPOSITION: Proprietary preparation of a synthetic sodium dinonylnaphthalenesulfonate and oxidates. **NA-SUL 420** does not contain reportable quantities of DEA (diethanolamine).

APPEARANCE: Dark brown liquid.

TYPICAL

PROPERTIES:	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	160 mm ² /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)	>102°C (>216°F)

Note: The above analytical data are not specifications.

	<u>Typical Treat Levels</u>
APPLICATIONS: Rust Preventive Fluids	1.0% - 10.0%
Water-Based Cleaners	1.0% - 5.0%

NA-SUL 420 based emulsions are ideal for dip application of metal parts for rust and corrosion protection during indoor storage. Emulsions based on **NA-SUL 420** deposit thin, hydrophobic protective films ranging from dry to slightly oily depending on the concentration. This product provides excellent humidity protection with some salt fog resistance at higher concentrations. The protective films dry quickly, yet are removable with alkaline detergent. Emulsions based on **NA-SUL 420** effectively protect steel, galvanized steel and aluminum from rusting.

NA-SUL 420 is successfully used to protect automotive parts as a key ingredient in a water-based cleaner/rust preventive fluid at a treat level of 2.0% to 3.0%. This fluid is applied by power spray washer systems to remove the metalworking fluid from newly machined parts. In addition to cleaning, the **NA-SUL 420** based fluid leaves a thin, dry film that protects the metal parts during indoor storage.

ADVANTAGES:

- * Effective on steel, galvanized steel and aluminum
- * Deposits extremely thin hydrophobic films
- * Films dry very quickly and are easily removed with alkaline cleaners
- * Emulsions form easily even in cold water
- * Emulsions that have slightly separated due to prolonged standing can be easily reformed with stirring

(see reverse side)

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TEST RESULTS: Technical reports are available from King Industries and can be requested by contacting the offices shown below.

SOLUBILITY: Forms emulsions in water at any proportion with simple stirring.

STANDARD PACKAGING: 430 lbs (195 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). Keep from freezing.

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 420**.

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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