

Product Data Sheet

NA-LUBE[®] EP-5415

SAMPLE REQUEST



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

NA-LUBE EP-5415 is a light colored, low odor sulfurized olefin/fatty oil with excellent extreme pressure properties and outstanding thermal and hydrolytic stability.

CHEMICAL

COMPOSITION: Sulfurized olefin/fatty oil.

APPEARANCE: Brown clear liquid.

TYPICAL

| | | |
|--------------------|---|------------------------------|
| PROPERTIES: | Sulfur Content | 14.5% |
| | Active Sulfur Content (ASTM D 1662) | 2.7% |
| | Color (ASTM D 1500 neat) | 3.5 |
| | Viscosity @ 40°C (ASTM D 445, DIN 51 550) | 300 mm ² /s (cSt) |
| | Density @ 15°C (ASTM D 941) | 0.970 g/ml |
| | Weight Per Gallon @ 25°C | 8.35 lbs. |
| | Flash Point, COC (ASTM D 92, DIN 51 376) | >180°C (>356°F) |

Note: The above analytical data are not specifications.

APPLICATIONS:

| | <u>Typical Treat Levels</u> |
|--|-----------------------------|
| Metalworking Fluids | 4.0% - 15.0% |
| Water Miscible Metalworking Concentrates | 5.0% - 20.0% |
| Industrial Gear Oils | 1.0% - 2.0% |
| Slideway Oils | 1.0% - 5.0% |
| Greases | 2.0% - 5.0% |

NA-LUBE EP-5415 is a unique low odor, light colored sulfur carrier based on olefin/fatty oil chemistry. **NA-LUBE EP-5415** provides outstanding thermal and hydrolytic stability when compared to conventional low odor, light color sulfur carriers. Because of its novel chemistry **NA-LUBE EP-5415** is well suited for machining non-ferrous metals. **NA-LUBE EP-5415** provides excellent extreme pressure and antiwear properties when used in combination with appropriate antiwear additives in mineral oils and greases. **NA-LUBE EP-5415** is highly suitable for heavy duty drilling and cutting operations. **NA-LUBE EP-5415**'s unique chemistry gives it outstanding solubility in naphthenic, Group I and II base oils. When used in combination with metal-containing or ashless phosphorus-type antiwear and lubricity additives, **NA-LUBE EP-5415** is an outstanding alternative to chlorinated paraffins in metalworking fluids.

(see reverse side)

NA-LUBE[®] EP-5415

- ADVANTAGES:**
- * Excellent extreme pressure properties
 - * Outstanding thermal and hydrolytic stability
 - * Light color, low odor
 - * Compatible with ZnDTP's
 - * Usable with ferrous and non-ferrous metals
 - * Easy handling, low viscosity
 - * Good solubility properties in Group I and Group II base oils

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: 419 lbs (190 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: 30°C (86°F)

SHELF LIFE: Best if used within 1 year 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-LUBE EP-5415**.

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.

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.
Science Park 402,
1098 XH Amsterdam
The Netherlands
Tel: +31-20-723-1970
E-mail: info@kingintl.nl

NA-LUBE[®] is a registered trademark of King Industries, Inc.

v:\lad\TechnicalLiterature\CumtTDS\NALUBE\EP5415_08
Revision date: 30 NOV 2015

The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of product evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. Such testing has not necessarily been done by King Industries, Inc. ("King"). The facts, recommendations and suggestions herein stated are believed to be reliable; however, no guaranty or warranty of their accuracy is made. EXCEPT AS STATED, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE. KING SHALL NOT BE HELD LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES. Any statement inconsistent herewith is not authorized and shall not bind King. Nothing herein shall be construed as a recommendation to use any product(s) in conflict with patents covering any material or its use. No license is implied or granted under the claims of any patent. Sales or use of all products are pursuant to Standard Terms and Conditions stated in King sales documents.