

Mobil Rarus SHC 1000 Series

Air Compressor Lubricant

Product Description

The Mobil Rarus SHC 1000 Series is a line of supreme performance oils primarily intended for the lubrication of severe duty rotary screw and vane air compressors. They are particularly suited for severe service where mineral oil-based products are not meeting expectations such as in severe applications subjected to high final compression temperatures or where extended oil drain intervals are desired. They are formulated with design-specific wax-free synthetic hydrocarbon fluids and a high technology additive system that assures exceptional resistance to oxidation and thermal degradation far superior to mineral oil-based air compressor oils. They provide outstanding equipment protection and reliability for compressors operating under conditions where other air compressor oils are not meeting expectations. Mobil Rarus SHC 1000 Series provide excellent wear protection and outstanding resistance to oxidation and thermal degradation, greatly superior to mineral oils. Their unique formulation provides the ability to reduce maintenance costs through minimising equipment problems and downstream deposits and carryover. Their high viscosity index ensures effective lubrication at high temperatures.

Mobil Rarus SHC 1000 Series lubricants significantly reduce the potential for fires and explosions when compared to mineral oil-based products. They exhibit a virtual absence of deposit formation and high autogeneous ignition temperatures improving both performance and safety. Their exceptional water separating characteristics reduce emulsion formation problems which may lead to blockage of coalescers and filters, thus reducing the need for frequent maintenance.

Features and Benefits

The use of the Mobil Rarus SHC 1000 Series oils can result in cleaner compressors and lower deposits compared to conventional mineral oils, resulting in longer running periods between maintenance intervals. Their excellent oxidation and thermal stability safely allow extended life capability while controlling sludge and deposit formation. They possess outstanding anti-wear and corrosion protection, which enhances equipment life and performance.

| Features | Advantages and Potential Benefits |
|---|---|
| High Performance Synthetic Base Stocks | Wide temperature range capability Significant performance capabilities relative to mineral oils Improved safety Extended service life |
| Outstanding Oxidation and Thermal Stability | Reduced coking deposits Longer oil life Improved filter life Lower maintenance costs |
| High Load-carrying ability | Reduced wear of bearings and gears |
| Excellent Water Separability | Less carryover to downstream equipment Reduced sludge formation in crankcases and discharge lines Reduced blockage of coalescers, inter- and after-coolers Less potential for emulsion formation |
| Effective Rust and Corrosion Protection | Improved protection of internal compressor components |



Applications

The Mobil Rarus SHC 1000 Series oils are primarily intended for rotary screw and vane compressors. They are particularly effective for continuous high temperature operation with discharge temperatures up to 200°. Rarus SHC 1000 Series oils are recommended for units with a history of excess oil degradation, poor valve performance or deposit formation. They are compatible with all metals used in compressor construction and with conventional mineral oil-based air compressor oils but admixture with other oils may detract from the total performance capability.

Mobil Rarus SHC 1000 Series oils are not recommended for air compressors used in breathing air applications.

The following types of compressor applications have shown excellent performance with the Mobil Rarus SHC 1000 Series oils:

- Primarily recommended for rotary screw and vane air compressor
- Very effective in screw type compressors with oil injection cooling
- Units operating under severe conditions
- Multistage units with a history of excessive oil degradation from mineral oil-based products
- Compressor systems with critical gears and bearings
- Compressors used in stationary and mobile applications

Typical Properties

| Mobil Rarus SHC 1000 Series | Mobil Rarus SHC 1024 | Mobil Rarus SHC 1025 | Mobil Rarus SHC 1026 |
|---|----------------------|----------------------|----------------------|
| ISO Viscosity Grade | 32 | 46 | 68 |
| Viscosity, ASTM D 445 | | | |
| cSt @ 40° C | 31.5 | 44 | 66.6 |
| cSt @ 100° C | 5.7 | 7.2 | 10.1 |
| Viscosity Index, ASTM D 2270 , min | 127 | 131 | 136 |
| Copper Strip Corrosion, ASTM D130,24 h @ 100° C | 1B | 2A | 1B |
| Rust Characteristics Proc A, ASTM D 665 | Pass | Pass | Pass |
| Pour Point, ASTM D 97, °C, max | -39 | -39 | -39 |
| Flash Point, °C, ASTM D 92 | 245 | 246 | 246 |
| Specific Gravity 15° C, ASTM D 1298 | 0.846 | 0.849 | 0.856 |

Precautions

MOBIL RARUS SHC 1000 SERIES is manufactured from high quality synthetic base oil, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Please refer to our Imperial Oil Material Safety Data Sheet for further information.

Note: This product is not controlled under Canadian WHMIS legislation.

The Mobil logotype, the Pegasus design are trademarks of Exxon Mobil Corporation, or one of its subsidiaries.

Safety Data Sheet

KB-300-46

Section 1. Chemical Product and Company Identification

Product Name : KB-300-46
 Supplier : KOBE STEEL, LTD.
 2-3-1, ARAICHO, SHINHAMA, TAKASAGO, HYOGO, JAPAN
 Telephone number : +81-794-45-7657
 Fax number : +81-794-45-7673

Intended Uses : Compressor oil
 In Case of Emergency : +81-794-45-7657
 SDS No. : Z022A(EU)

Section 2. Composition, Information on Ingredients

Preparation Description : Blend of polyolefins and additives.

Section 3. Hazards Identification

This material is not considered to be hazardous according to regulatory guidelines see Section 15.

Physical State and Appearance : Liquid.
 Emergency Overview : No specific hazard.
 Routes of Entry : No information available
 Potential Acute Health Effects
 Eyes : Contact may cause mild eye irritation including stinging, watering and redness.
 Skin : Contact may cause mild skin irritation including redness, and a burning sensation.
 Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin leading to dermatitis (inflammation). No harmful effects from skin absorption are expected.

Inhalation : No information available
 Ingestion : No information available
 Potential Chronic Health Effects : CARCINOGENIC EFFECTS : No information available
 MUTAGENIC EFFECTS : No information available
 TERATOGENIC EFFECTS : No information available

Medical Conditions Aggravated by Overexposure : No information available
 Overexposure/Signs/Symptoms : Effect of overexposure may include nausea, diarrhea irritation of the digestive tract, irritation of the nose and throat.
 See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
 Skin Contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
 Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
 Ingestion : First aid is normally not required. Seek medical attention if discomfort occurs.
 Notes to Physician : No information available

Section 5. Fire Fighting Measures

Flammability of the Product : May be combustible at high temperature.
 Flash Points : Open cup: 264 C degrees (Cleveland).
 Flammable Limits : No information available
 Products of Combustion : No information available
 Fire Hazards in Presence of Various Substances : No information available
 Explosion Hazards in Presence of Various Substances : Risk of explosion of the product in presence of mechanical impact : Not available.
 Risk of explosion of the product in presence of static discharge : Not available.
 Fire Fighting Media and Instructions
 SMALL FIRE : Use water dry chemical or carbon dioxide (CO2) to extinguish flames.
 LARGE FIRE : Use water spray, fog or form. Do not use water jet.
 Protective Clothing (Fire) : Be sure to use an approved/certified respirator or equivalent.
 Special Remarks on Fire Hazards : No information available
 Special remarks on Explosion Hazards : No information available

Section 6. Accidental Release Measures

SPILL MANAGEMENT
 Land Spill : Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.
 Water Spill : Confine the spill immediately with booms. Stop leak if you can do it without risk. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Section 7. Handling and Storage

- Handling** : Use only if manufacturer's seal is intact. Use local exhaust ventilation if there is risk of inhalation of vapors, mists or aerosols. Avoid prolonged or repeated contact with skin. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Cloth, paper and other materials that are used to absorb spills present a fire hazard. Avoid their accumulation by disposing of them safely and immediately. In addition to any specific recommendations given for controls of risks to health, safety and the environment, an assessment of risks must be made to help determine controls appropriate to local circumstances.
- Storage** : Food grade lubricants should be stored separately from other lubricants, chemical substances and foodstuffs. Keep in a cool, dry, well-ventilated place. Avoid direct sunlight, heat sources, and strong oxidizing agents. Use original containers only and ensure tight closure after decanting into clean dedicated containers for top-up of equipment (N.B. cleaning of top-up or decant containers should be conducted in accordance with Good Manufacturing Practice and Hazard Analysis and Critical Control Point (HACCP) systems).

Section 8. Exposure Controls, Personal Protection

- Exposure Limits** : No Exposure Limit Established
- Engineering Controls** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions.
- Control measures to consider: No special requirements under ordinary conditions of use and with adequate ventilation.
- Personal Protection** : Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.
- Respiratory Protection** : If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.
- Types of respirators to be considered for this material include: No special requirements under ordinary conditions of use and with adequate ventilation.
- For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.
- Hand Protection** : Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace

worn or damaged gloves.

The types of gloves to be considered for this material include: No protection is ordinarily required under normal conditions of use.

- Eye Protection** : If contact is likely, safety glasses with side shields are recommended.
- Skin and Body Protection** : Any specific clothing information provided is based on published literature or manufacturer data.
- The types of clothing to be considered for this material include: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
- : Safety glasses

Section 9. Physical and Chemical Properties

- Physical State and Appearance** : Liquid.
- Color** : pale yellow.
- Odour** : Characteristic
- pH (1% Soln/Water)** : No data
- Flash Points** : Open cup: 264 C degrees (Cleveland).
- Boiling/Condensation Point** : No data
- Melting/Freezing Point** : -55.0C degrees
- Specific Gravity** : 0.83g/cm³ (15 C degrees)
- Vapor Pressure** : No data
- Vapor Density** : No data
- Volatility** : No data
- Evaporation Rate** : No data
- VOC** : No data
- Viscosity** : Kinetic (40 C degrees): 46mm²/s
- Ionicity (in Water)** : No data
- Solubility** : Negligible
- Physical Chemical Comments** : No data

Section 10. Stability and reactivity

- Stability** : Material is stable under normal conditions.
- Conditions to Avoid** : Excessive heat. High energy sources of ignition.
- Materials to Avoid** : Strong oxidizers
- Hazardous Decomposition Products** : Material does not decompose at ambient temperatures.
- Hazardous Polymerization** : Will not occur.

Section 11. Toxicological information

| | |
|---------------------|---|
| Oral Toxicity | : Practically non-toxic (LD50: greater than 2000 mg/kg). —Based on testing of similar products and/or the components. |
| Dermal Toxicity | : Practically non-toxic (LD50: greater than 2000 mg/kg). —Based on testing of similar products and/or the components. |
| Inhalation Toxicity | : Practically non-toxic (LC50: greater than 5 mg/l). —Based on testing of similar products and/or the components. |
| Eye Irritation | : Practically non-irritating. |
| Skin Irritation | : Practically non-irritating. |

Section 12. Ecological Information

The information given is based on data available for the material, the components of the material, and similar materials.

| | |
|-------------|--|
| Ecotoxicity | : Material – Not expected to be harmful to aquatic organisms. |
| Mobility | : Base oil component – Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids. |

Section 13. Disposal Considerations

| | |
|---------------------|--|
| Waste Disposal | : Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any licensed waste disposal site. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal. |
| European Waste Code | : 13 02 06 (synthetic engine, gear and lubricating oils) Waste generated from the intended use of this product is assigned the above waste disposal code. However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user. This waste is considered as a hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of the Directive applies. |

Section 14. Transport Information

| | |
|-------------------------|--|
| LAND (ADR/RID) | : Not Regulated for Land Transport |
| INLAND WATERWAYS (ADNR) | : Not Regulated for Inland Waterways Transport |
| SEA (IMDG) | : Not Regulated for Sea Transport according to IMDG-Code |
| AIR (IATA) | : Not Regulated for Air Transport |

Section 15. Regulatory Information

| | |
|--------------|---|
| EU Labelling | : Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required. |
|--------------|---|

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Complies with the following national/regional chemical inventory requirements : AICS, DSL, EINECS, ENCS, KECI, TSCA

Section 16. Other Information

| | |
|------------------------------|----------------------------|
| References | : No information available |
| Other Special Considerations | : No information available |

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Material Safety Data Sheet
According to 91/155 ECC

Prepared: 18 december 2006

| 1. Identification of the substance/preparation and of the company/undertaking | | | | |
|--|--|------------------------|-----------------------|-------------------------------|
| Product Details | | | | |
| - Trade Name: | MYCOM MH-41 | | | |
| - Article Number: | MH-41 | | | |
| - Application of the substance / the preparation: | Lubricating oil | | | |
| - Manufacturer / Supplier: | MOBIL OIL CORP. NORTH AMERICA MARKETING AND REFINING 3225 GALLOWS RD. FAIRFAX, VA 22037 | | | |
| - Further information obtainable from: | 001 / 800-662-4525, 001 / 609-224-4644 | | | |
| - Information in case of emergency: | 001 / 609-737-4411 | | | |
| 2. Composition / Information on ingredients | | | | |
| Chemical characteristics: | | | | |
| - Description: | PAO (polyethylene) 1-DECENE, homopolymer Hydrogenated (95-100%) | | | |
| - Reportable Hazardous Substance(s) or Complex Substance(s): | | | | |
| Name | CAS# | EINECS / ELINCS | Concentration* | Symbols / Risk Phrases |
| TRICRESYL PHOSPHATE | 1330-78-5 | 215-548-8 | 1-2% | Xn/R21/22, N/R51/53 |
| *All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume. | | | | |
| - Additional information: | LEL: NA; UEL: NA | | | |
| 3. Hazards identification | | | | |
| - Hazard description: | NFPA hazard ID | | | |
| - NFPA hazard ID: | Health :0 , Flammability:1 , Reactivity: 0 | | | |
| - Information concerning particular hazards for human and environment: | Based on available toxicology information, when properly used and handled, these products have little potential health effect. | | | |
| - Classification system: | US OSHA HAZARD COMMUNICATION STANDARD | | | |
| 4. First-aid measures | | | | |
| - If inhaled: | Remove from further exposure. If respiratory irritation, dizziness, nausea or unconsciousness occurs, seek immediate medical assistance and If breathing has stopped, use mouth to mouth resuscitation. | | | |
| - After skin contact: | Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. | | | |
| - After eye contact: | Flush thoroughly with water. If irritation persists, call a physician. | | | |
| - If swallowed: | Do not induce vomiting. Give 1 to 2 glasses of water. Get medical assistance. (Note to physician: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.) | | | |
| 5. Fire-fighting measures | | | | |
| - Suitable extinguishing agents: | Water Fog Foam Fire-extinguishing powder (dry chemical) Carbon dioxide | | | |

Material Safety Data Sheet
According to 91/155 ECC

Prepared: 18 december 2006

| - For safety reasons unsuitable extinguishing agents: | Water with full jet |
|---|---|
| - Special hazards caused by the substance, its products of combustion or resulting gases: | In case of fire, the following can be released: Carbon monoxide (CO) |
| - Protective equipment: | For fires in enclosed areas, fire fighters MUST use self-contained breathing apparatus Do not inhale explosion or combustion gases. Follow standard procedures for chemical fires. |
| - Additional information | Cool endangered containers with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. |
| 6. Accidental release measures | |
| - Personal safety precautions: | Particular danger of slipping on leaked/spilled product. |
| - Measures for environmental protection: | Do not allow to enter sewers / surface water or ground water |
| - Measures for cleaning / collecting: | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, fire-retardant treated sawdust). Dispose of the material collected according to regulations. |
| 7. Handling and storage | |
| - Information for safe handling: | No special precautions are necessary beyond normal good hygiene practices |
| - Information about fire- and explosion protection: | No special measures required. |
| - Storage: | Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible materials Store in cool, dry conditions in well sealed containers. |
| - Information about storage in one common storage facility: | - |
| - Further information about storage conditions: | store in cool, dry conditions |
| 8. Exposure controls / personal protection | |
| - Ventilation: | Use in well ventilated area |
| - Ingredients with limit values that require monitoring at the workplace: | This product does not contain any components which have recognized exposure limits, however, an exposure limit of 5.00mg/m ³ is suggested for oil mist |
| - Personal protective equipment | |
| General protective and hygienic measures: | Do not inhale gases / fumes / aerosols. Immediately remove all soiled and contaminated clothing Avoid prolonged, repeated contact with the skin. Be sure to clean skin thoroughly after work and before breaks. If prolonged or repeated skin contact is likely, impervious gloves should be worn. Good personal hygiene practices should always be followed. |
| Skin protection: | Normal industrial eye protection should be used |
| Eye protection: | This product does not contain any components which have recognized exposure |
| Exposure Limits: | However, a exposure limit of 5.00 mg/m ³ is suggested for oil mist |

Material Safety Data Sheet
According to 91/155 ECC

Prepared: 18 december 2006

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|---|--|
| 9. Physical and chemical properties | |
| General Information | |
| Form: | Fluid |
| Colour: | < ASTM Colour Standard 0.5 |
| Odour: | Mild, product specific |
| - Change in condition | |
| Pour point: | < -55°C |
| Flash point: | > 204°C |
| - Explosion hazard: Product does not present any explosion hazard. | |
| - Density at 15°C: | 0.818 |
| - Solubility in / Miscibility with water: | Negligible |
| 10. Stability and reactivity | |
| - Stability: | Stable |
| - Conditions to avoid: | Extreme heat |
| - Materials to be avoided: | Strong oxidizers (expl: O ₂ ⁻² ;NO ₃ ⁻¹ ;NO ₂ ; ClO ₄ ; ClO ₃ -; ClO ₂ -; ClO-; Cr ₂ O ₇ ⁻² ; MnO ₄ ⁻² ;S ₂ O ₈ ⁻² ; etc) |
| - Dangerous reactions: | No dangerous reactions known. |
| - Hazardous decompositions Products: | CO ₂ |
| - Hazardous Polymerization : | None |
| 11. Toxicological information | |
| Additional toxicological information: | |
| Oral toxicity (Rats): | LD50: > 2000 mg/ kg |
| Dermal toxicity (Rabbits): | LD50: > 2000 mg/kg |
| Inhalation toxicity(Rats): | Not established |
| Skin irritation(Rabbits): | Primary irritation index: > 0.5 but less than 3 (Practically non-irritating) |
| Eye irritation (Rabbits): | Draize score greater than 6 but 15 or less (Practically non-irritating) |
| Chronic toxicology: | Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. |
| Other toxicology: | The phosphate ester in this product does not produce delayed neuro-toxicity, but does inhibit serum cholinesterase in experimental animals. This cholinesterase inhibition is not considered significant to humans. |
| 12. Ecological information | |
| - Ecotoxic effects: | Not established |
| - Behaviour in sewage processing plants: | Not established |
| - General notes: | Do not allow product to reach ground water, water courses or sewage system. |
| 13. Disposal considerations | |
| - Waste disposal: | Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the resource conservation and recovery act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and considerations of product characteristics at the time of disposal |

Material Safety Data Sheet
According to 91/155 ECC

Prepared: 18 december 2006

| | |
|---|--|
| - RCRA Information (Resource Conservation and Recovery Act): The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste(40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristic of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the toxicity characteristic leaching procedure (TCLP) However, used product may be regulated. | |
| 14. Transport information | |
| - Land transport ADR/RID (cross-border) | |
| - ADDR/RID class: | Not regulated by USA DOT |
| - Maritime transport IMDG | Not regulated by IMO |
| - IMDG class: | Not regulated by IMO |
| - Air transport ICAO-TI and IATA-DGR | Not regulated by IATA |
| - ICAO/IATA class: | Not regulated by IATA |
| - Transport / Additional information: | Not classified as dangerous. |
| 15. Regulatory information | |
| - Labelling according to EU guidelines: | Not applicable |
| 16. Other information | |
| This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. | |
| - Department issuing MSDS: | Mayekawa Chemical Process Europe NV, part of MAYEKAWA MFG.CO., LTD. |

June 21, 2007

P.O. Box 131359 • Tyler, CR 2120, Texas 75713, Phone 903.534.8021 • Fax 903.581.4376

Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current as of June 21, 2007.

SYNTHETIC NATURAL GAS COMPRESSOR

NGSH SERIES

*The **Summit NGSH Series** of lubricants is formulated from the highest quality synthetic hydrocarbon base stocks. **NGSH** lubricants are extended life fluids with special additives to protect equipment from wear, rust and hydrogen sulfide corrosion. These fluids are designed for rotary screw and reciprocating compressors in natural gas service. The **NGSH Series** lubricants have low pour points, high viscosity indices and excellent water demulsibility. Consult your Summit distributor or application engineer for assistance in choosing the proper fluid for your application.*

Physical Properties

| PRODUCTS | NGSH-68 | NGSH-100 | NGSH-150 | NGSH-220 |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| ISO Grade | 68 | 100 | 150 | 220 |
| Specific Gravity | 0.869 | 0.889 | 0.891 | 0.891 |
| Viscosity | | | | |
| @ 40°C, cSt | 62.7 | 95.5 | 140.5 | 192.0 |
| @ 100°C, cSt | 10.10 | 13.9 | 18.50 | 22.40 |
| @ 100°F, SUS | 320 | 491 | 718 | 990 |
| @ 210°F, SUS | 60.4 | 75.2 | 94.3 | 111.4 |
| Viscosity Index | 147 | 148 | 148 | 141 |
| Pour Point, °F (°C) | -55 (-48) | -44 (-42) | -49 (-45) | -49 (-45) |
| Flash Point, °F (°C) | 475 (246) | 500 (260) | 515 (268) | 525 (274) |
| Autoignition, °F (°C) | 750 (399) | 760 (404) | 760 (404) | 765 (407) |
| Emulsion Tendency | 40/38/2 (10 mins.) | 40/38/2 (10 mins.) | 40/37/3 (10 mins.) | 40/37/3 (10 mins.) |
| Four Ball Wear, mm | 0.55 | 0.50 | 0.45 | 0.40 |

Summit NGSH Series lubricants are compatible with commonly used seal materials and equipment designed for use with petroleum oils.



Prepared according to Annex II of EC Regulation 1907/2006.

| | |
|----------|---|
| 1 | Substance/Product Identification |
|----------|---|

Product Trade Name **CP4600.100**
Company *CPI Engineering Services*
 2300 James Savage Rd.
 Midland, MI 48642
 Phone: 989-496-3780
 Fax: 989-496-0316
E-mail contact EUSDS@lubrizol.com
CAS Number Not applicable for mixtures.
Synonyms None.
Preparation/Revision Date 10 August 2009
Generic Chemical Name Mixture.
Product Type Multipurpose.
Emergency Phone Number FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)
MSDS No. 28418939-2312338-3021910-102103

| | |
|----------|-------------------------------|
| 2 | Hazards Identification |
|----------|-------------------------------|

Symbol(s) Not applicable.
Product Classification Not applicable.

| | |
|----------|---|
| 3 | Composition/Information on Ingredients |
|----------|---|

Hazardous Ingredients

This material has no known hazards under applicable laws.

| | |
|----------|---------------------------|
| 4 | First Aid Measures |
|----------|---------------------------|

Ingestion DO NOT INDUCE VOMITING. Get immediate medical attention.
Eyes Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.
Skin Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
Inhalation Remove exposed person to fresh air if adverse effects are observed.
Additional Information Note to physician: Treat symptomatically.

| | |
|----------|-------------------------------|
| 5 | Fire Fighting Measures |
|----------|-------------------------------|

Flash Point 238 °C, 460.4 °F COC (Typical)
Extinguishing Media CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.

Firefighting Procedures Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Unusual Fire & Explosion Hazards Not determined.

| | |
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| 6 | Accidental Release Measures |
|----------|------------------------------------|

Spill Procedures Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

| | |
|----------|-----------------------------|
| 7 | Handling and Storage |
|----------|-----------------------------|

Pumping Temperature Not determined.
Maximum Handling Temperature Not determined.
Handling Procedures Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
Maximum Storage Temperature Not determined.
Storage Procedures No special storage precautions required.
Loading Temperature Not determined.

| | |
|----------|--|
| 8 | Exposure Controls/Personal Protection |
|----------|--|

Exposure Limits

EU
 Not applicable.

UK
 Not applicable.

Ireland
 Not applicable.

India
 Not applicable.

Cyprus
 Not applicable.

Other Exposure Limits Contains synthetic basestock. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter for mineral oil mists.

Engineering Controls Use with adequate ventilation.

Hand Protection Nitrile.

Eye Protection Safety Glasses.

Respiratory Protection Use respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Clothing Recommendation Long sleeve shirt is recommended. Launder contaminated clothing before reuse.

| | |
|----------|---|
| 9 | Physical and Chemical Properties |
|----------|---|

| | |
|----------------------------------|---|
| Flash Point | 238 °C, 460.4 °F COC (Typical) |
| Upper Flammable Limit | Not determined. |
| Lower Flammable Limit | Not determined. |
| Autoignition Point | Not determined. |
| Explosion Data | Material does not have explosive properties. |
| Vapour Pressure | Not determined. |
| pH | Not determined. |
| Specific Gravity | 0.83 (15.6 °C) |
| Bulk Density | Not determined. |
| Water Solubility | Insoluble. |
| Percent Solid | Not determined. |
| Percent Volatile | Not determined. |
| Volatile Organic Compound | Not determined. |
| Vapour Density | Not determined. |
| Evaporation Rate | Not determined. |
| Odour | Mild |
| Appearance | Clear liquid. |
| Viscosity | 97.3 Centistokes (40 °C) 14.2 Centistokes (100 °C) |
| Odour Threshold | Not determined. |
| Boiling Point | Not determined. |
| Pour Point Temperature | < -40 °C, < -40 °F |
| Melting / Freezing Point | Not determined. |

The above data are typical values and do not constitute a specification.

| | |
|-----------|---------------------------------|
| 10 | Stability and Reactivity |
|-----------|---------------------------------|

| | |
|----------------------------------|--|
| Stability | Material is normally stable at moderately elevated temperatures and pressures. |
| Decomposition Temperature | Not determined. |
| Incompatibility | Oxidizing agents. |
| Polymerization | Will not occur. |
| Thermal Decomposition | Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. |

| | |
|-----------|----------------------------------|
| 11 | Toxicological Information |
|-----------|----------------------------------|

-- ACUTE EXPOSURE --

| | |
|-------------------------------|---|
| Eye Irritation | Not expected to cause eye irritation Based on data from components or similar materials. |
| Skin Irritation | Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated contact may cause dermatitis. |
| Respiratory Irritation | If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from similar materials. |
| Dermal Toxicity | The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials. |

| | |
|---------------------------------|---|
| Inhalation Toxicity | No data available to indicate product or components may be a toxic inhalation hazard. |
| Oral Toxicity | The LD50 in rats is > 2000 mg/Kg. Based on data from components or similar materials. |
| Dermal Sensitization | No data available to indicate product or components may be a skin sensitizer. |
| Inhalation Sensitization | No data available to indicate product or components may be respiratory sensitizers. |

-- CHRONIC EXPOSURE --

| | |
|------------------------------|---|
| Chronic Toxicity | No data available to indicate product or components present at greater than 1% are chronic health hazards. |
| Carcinogenicity | No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard. |
| Mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Reproductive Toxicity | No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity. |
| Teratogenicity | No data available to indicate product or any components contained at greater than 0.1% may cause birth defects. |
| Other | No other health hazards known. |

| | |
|-----------|-------------------------------|
| 12 | Ecological Information |
|-----------|-------------------------------|

-- ENVIRONMENTAL TOXICITY --

| | |
|--|--|
| Freshwater Fish Toxicity | The acute LC50 is 100 - 1000 mg/L based on component data. |
| Freshwater Invertebrates Toxicity | Not determined. |
| Algae Toxicity | The acute EC50 is > 1000 mg/L based on component data. |
| Saltwater Fish Toxicity | Not determined. |
| Saltwater Invertebrates Toxicity | The acute LC50 is > 1000 mg/L based on component data. |
| Bacteria Toxicity | The acute EC50 is > 1000 ppm based on component data. |
| Miscellaneous Toxicity | Not determined. |

-- ENVIRONMENTAL FATE --

| | |
|------------------------|--|
| Biodegradation | At least 25% of the components in this product show limited biodegradation based on OECD 301-type test data. |
| Bioaccumulation | 25% or greater of the components will not bioconcentrate, based on actual data. |
| Soil Mobility | Not determined. |
| WGK | WGK =1 according to the Water Hazardous Directive, VwVwS, dated May 17, 1999. |

| | |
|-----------|--------------------------------|
| 13 | Disposal Considerations |
|-----------|--------------------------------|

| | |
|-----------------------|---|
| Waste Disposal | This material, if discarded, should not be considered a European hazardous waste. |
|-----------------------|---|

| | |
|-----------|------------------------------|
| 14 | Transport Information |
|-----------|------------------------------|

| | |
|-----------------------|-----------------|
| ICAO/IATA II | Not regulated |
| IMDG | Not regulated |
| IMDG EMS Fire | Not applicable. |
| IMDG EMS Spill | Not applicable. |
| IMDG MFAG | Not applicable. |

| | |
|------------------------------|-----------------|
| MARPOL Annex II | Not determined. |
| USCG Compatibility | Not determined. |
| ADR/RID | Not regulated |
| ADR/RID Hazard ID No. | Not applicable. |
| South Africa | Not regulated |

Review classification requirements before shipping materials at elevated temperatures.

| | |
|-----------|-------------------------------|
| 15 | Regulatory Information |
|-----------|-------------------------------|

| | |
|--------------------------------|-----------------|
| Symbol(s) | Not applicable. |
| Indication of Danger | Not applicable. |
| Precautionary Labels | Not applicable. |
| Other Label Information | None. |

-- Global Chemical Inventories --

| | |
|--------------------|--|
| USA | All components of this material are on the US TSCA Inventory or are exempt. |
| EU | All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC. |
| Japan | All components are in compliance with the Chemical Substances Control Law of Japan. |
| Australia | All components are in compliance with chemical notification requirements in Australia. |
| New Zealand | All components are in compliance with chemical notification requirements in New Zealand. |
| Canada | All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List. |
| Switzerland | All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland. |
| Korea | All components are in compliance in Korea. |
| Philippines | All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969). |
| China | All components of this product are listed on the Inventory of Existing Chemical Substances in China. |

-- Product Registrations --

| | |
|---|---|
| Finnish Registration Number | Not Registered |
| Swedish Registration Number | Not Registered |
| Norwegian Registration Number | Not Registered |
| Danish Registration Number | Not Registered |
| Swiss Registration Number | Not Registered |
| Italian Registration Number | Not Registered |
| Korean Registration Number | Not Registered |
| U.S. Dept of Agriculture | This product has not been filed with the USDA to support H2 approvals. |
| NSF Nonfood Compounds Registration | This product has not been filed with the NSF to support H1 or H2 approvals. |

-- Other / International --

FDA Approval Not applicable.

| | |
|-----------|--------------------------|
| 16 | Other Information |
|-----------|--------------------------|

| HMIS Codes | <table border="1"> <tr> <th>Health</th> <th>Fire</th> <th>Reactivity</th> </tr> <tr> <td>1</td> <td>1</td> <td>0</td> </tr> </table> | Health | Fire | Reactivity | 1 | 1 | 0 |
|-------------------|--|------------|------|------------|---|---|---|
| Health | Fire | Reactivity | | | | | |
| 1 | 1 | 0 | | | | | |

Relevant R Phrases Not applicable.

| Revision Indicators | <table border="1"> <thead> <tr> <th>Section</th> <th>Changed</th> </tr> </thead> <tbody> <tr> <td>8 Respiratory protection.</td> <td>29 March 2009</td> </tr> <tr> <td>9 Odor threshold.</td> <td>29 March 2009</td> </tr> <tr> <td>9 Percent volatile.</td> <td>29 March 2009</td> </tr> <tr> <td>11 Oral toxicity.</td> <td>10 August 2009</td> </tr> <tr> <td>12 Bioconcentration</td> <td>10 August 2009</td> </tr> <tr> <td>15 MISC. Regulatory info.</td> <td>29 March 2009</td> </tr> <tr> <td>15 New Zealand</td> <td>29 March 2009</td> </tr> <tr> <td>16 HMIS codes.</td> <td>29 March 2009</td> </tr> <tr> <td>16 Miscellaneous information.</td> <td>29 March 2009</td> </tr> </tbody> </table> | Section | Changed | 8 Respiratory protection. | 29 March 2009 | 9 Odor threshold. | 29 March 2009 | 9 Percent volatile. | 29 March 2009 | 11 Oral toxicity. | 10 August 2009 | 12 Bioconcentration | 10 August 2009 | 15 MISC. Regulatory info. | 29 March 2009 | 15 New Zealand | 29 March 2009 | 16 HMIS codes. | 29 March 2009 | 16 Miscellaneous information. | 29 March 2009 |
|-------------------------------|---|---------|---------|---------------------------|---------------|-------------------|---------------|---------------------|---------------|-------------------|----------------|---------------------|----------------|---------------------------|---------------|----------------|---------------|----------------|---------------|-------------------------------|---------------|
| Section | Changed | | | | | | | | | | | | | | | | | | | | |
| 8 Respiratory protection. | 29 March 2009 | | | | | | | | | | | | | | | | | | | | |
| 9 Odor threshold. | 29 March 2009 | | | | | | | | | | | | | | | | | | | | |
| 9 Percent volatile. | 29 March 2009 | | | | | | | | | | | | | | | | | | | | |
| 11 Oral toxicity. | 10 August 2009 | | | | | | | | | | | | | | | | | | | | |
| 12 Bioconcentration | 10 August 2009 | | | | | | | | | | | | | | | | | | | | |
| 15 MISC. Regulatory info. | 29 March 2009 | | | | | | | | | | | | | | | | | | | | |
| 15 New Zealand | 29 March 2009 | | | | | | | | | | | | | | | | | | | | |
| 16 HMIS codes. | 29 March 2009 | | | | | | | | | | | | | | | | | | | | |
| 16 Miscellaneous information. | 29 March 2009 | | | | | | | | | | | | | | | | | | | | |

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INTRODUCTION

The **BREOX B-Series** are a range of monol initiated propylene oxide homo-polymers manufactured to provide a viscosity range from 15 to 335 cSt @ 40°C.

These products find extensive application when manufacturing and formulating various water insoluble lubricants for example:

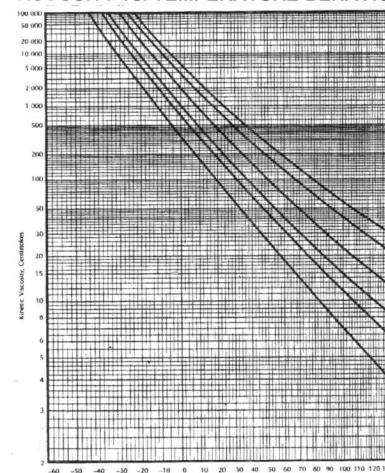
- Gear and Calender lubricants
- Compressor lubricants
- Metal working formulations
- Textile lubricants

In addition the **BREOX B-Series** from B75 upwards are FDA approved under 21 CFR 178.3570 (Incidental contact with food) and can therefore be used in instances where the potential for food contamination exists.

TYPICAL PHYSICAL PROPERTIES

| | | B 35 |
|-----------------------|----------------|---------|
| Viscosity | cSt @ 40°C | 33 |
| Viscosity | cSt @ 100°C | 6.7 |
| Viscosity Index | ASTM D 2270 | 169 |
| Pour point, °C | ASTM D 97 | -60 |
| Refractive Index | N _D | 1.45 |
| Specific Gravity | 20 / 20°C | 0.98 |
| Flash Point, °C | COC | 208 |
| Vapour Pressure | mm Hg 20°C | <0.001 |
| Water Content | % by wt | <0.25 |
| Specific Heat | kJ / kg K | 1.95 |
| Ash | ASTM D 482 | <0.01 |
| Surface Tension, 20°C | Dynes / cm | 35 – 40 |

VISCOSITY vs. TEMPERATURE BEHAVIOUR



Remarks

Handling & Safety:
Storage:

Revision-No.

2.3-08.2004 Effective August 17, 2004

The product can be stored for at least 2 years at ambient storage conditions and temperature without any deterioration.

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F_S

Additional Technical Data

INTRODUCTION

BREOX Compressor Lube LPG 46 is a high performance synthetic gas compressor lubricant based on a Polyalkylene glycol. It is designed for use in rotary screw compressors used for the compression of petroleum and process gases. The low compatibility of BREOX LPG 46 with these gases reduces the viscosity drop which will occur due to solubility of the compressed gas at operating temperature and pressure, thus maintaining lubricant performance.

PAG ADVANTAGES

Poor compatibility with Hydrocarbon gases, reduced lubricant film degradation. Superior lubricity compared to alternative synthetic technologies and mineral oils. Improved lubricant performance can result in improved system efficiency, lower maintenance costs and reduced downtime.
 Exceptional Viscosity Index – The high VI of BREOX LPG 46 enhances compressor life by ensuring efficient running at temperature extremes.
 Good high temperature stability, resulting in reduced downtime and lower maintenance costs.
 Formulating Expertise – The BREOX LPG 46 contain efficient additive technology to protect the compressor from any problems related to corrosion of white or yellow metals and to minimise the effects of wear and extreme pressure conditions and to ensure long fluid life.

TYPICAL PROPERTIES

| Performance Attribute | Analysis Method | LPG 46 |
|------------------------------|-----------------|--------|
| Viscosity @40°C (cSt) | ASTM D445 | 42 |
| Viscosity @100°C (cSt) | ASTM D445 | 8,3 |
| Viscosity Index | ASTM D2270 | 178 |
| Density (gcm ⁻³) | ASTM D1298 | 0.983 |
| Flash Point (°C) | ASTM D92 | 242 |
| Pour Point (°C) | ASTMD97 | -50 |
| Water Content (wt% max) | ASTM E284 | 0.03 |
| TAN (mgKOHg ⁻¹) | ASTM D974 | 0.10 |

(The typical values presented here should not be considered to constitute a specification).

Remarks

Handling & Safety: A material Safety Data Sheet (MSDS) has been issued describing the health, safety and environmental characteristics of BREOX LPG 46 together with handling precautions and emergency procedures. This must be consulted and fully understood before storage, handling and use.

Storage:

Revision-No. 1.1-07.2005 Effective July 28, 2005

The product can be stored for at least 1 year at ambient storage conditions and temperature without any deterioration.

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COGNIS DEUTSCHLAND GmbH & CO KG

F_S



UCON Fluids and Lubricants

UCON Lubricant LB-X

Product Description

UCON™ LB-X Lubricants are formulated with an antioxidant for improved high temperature performance. If an application requires enhanced oxidative stability, these fluids are excellent candidates. Compared to standard UCON LB fluids, LB-X Lubricants offer the following improvements:

- Higher flash points
- Less volatility at elevated temperatures
- Less tendency to form oxidative by-products, e.g. aldehydes, organic acids
- Less tendency to become acidic during use

It is important to note these improvements are the result of high temperature antioxidant present in the fluid. The antioxidant will become depleted over time as it reacts with oxygen. Once the antioxidant is fully depleted, the LB-X fluids will be no more stable than uninhibited UCON LB fluids. During use, the color of LB-X fluids may become dark brown without signifying a complete loss of antioxidant effectiveness.

Product Nomenclature

UCON LB-X Lubricants are designated by letter and number symbols which identify their chemical structure, viscosity, and additive. The basestock for all UCON LB-X Lubricants are UCON LB fluids. These are alcohol started polymers of all oxypropylene groups. LB fluids are water insoluble and have one terminal hydroxyl group. Viscosity in Saybolt Universal Seconds (SUS) at 100°F (38°C) is designated by the numbers immediately following the "LB" designation. Example: UCON Lubricant LB-300-X has a viscosity of 300 SUS at 100°F (38°C). The last letter in the name is an "X" which designates the high temperature antioxidant N-phenyl-alpha-naphthylamine.

Typical Physical Properties*

UCON Lubricant

| Property | LB-170-X | LB-300-X | LB-400-X | LB-550-X | LB-650-X |
|--|-----------|-----------|-----------|-----------|-----------|
| Viscosity @ 100°F, SUS ASTM D 445 | 170 | 300 | 400 | 550 | 650 |
| Viscosity Index, ASTM D 2270 | 159 | 174 | 179 | 188 | 193 |
| Lbs/gallon @ 20°C | 8.22 | 8.30 | 8.30 | 8.30 | 8.32 |
| Specific Gravity@ 20/20°C | 0.987 | 0.997 | 0.997 | 0.998 | 0.999 |
| Closed Cup Flash Point ASTM D 93, °C (°F) | 186 (368) | 192 (378) | 217 (423) | 218 (425) | 233 (453) |
| Open Cup Flash Point ASTM D 92, °C (°F) | 232 (450) | 237 (460) | 262 (505) | 248 (540) | 279 (535) |
| Water, wt% | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |

* Typical properties, not to be construed as specifications

Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to the use.

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