More than oil, peace of mind...

The choice of Lubricant is key to ensuring positive displacement and centrifugal blowers operating efficiency...

High performance Lubricants warrant an extended bearings life span ...

A lubricant that meets your equipment specifications can also prevent premature failure ..

Hibon® has therefore selected a high performance synthetic oil to offer the highest protection under extreme operating conditions.

Advantages– Benefits

- Very high viscosity index.
- Low pour point.
- Excellent anti-wear and extreme pressure properties.
- Very good resistance to oxidation
- High resistance to hydrolysis
- Good anti-rust properties.
- Perfect compatibility with seals.
- Miscible with mineral-based gear oils

Highlights

- Fully synthetic, high performance lubricant
- Excellent thermal stability
- High corrosion protection
- Remarkable flow behaviour at low temperatures
- Very good viscosity index
- Friction & wear reduction
- All season lubricant
- Low volatility
- Incomparable cleanliness
- Very insusceptible to aging

Physical and Chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>0.89</td>
</tr>
<tr>
<td>Pour Point, °C</td>
<td>-45</td>
</tr>
<tr>
<td>Flash point, °C</td>
<td>248</td>
</tr>
<tr>
<td>Viscosity for 40°C, cSt</td>
<td>221.8</td>
</tr>
<tr>
<td>Viscosity for 100°C, cST</td>
<td>24.5</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>138</td>
</tr>
</tbody>
</table>

Hazards identification

The product is not classified as dangerous according to directive 1999/45/EC and its amendments.

Pack sizes

- 2 l Hibon® Lube LUB1000002 46421343
- 5 l Hibon® Lube LUB1000005 46421350
Original HIBON Positive displacement & Centrifugal blowers synthetic oil

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Version 1.1
Revision Date 31.10.2014
Print Date 06.11.2014

1. Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier
Trade name: HIBON LUBE - ANDEROL 52 20 XEP

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture: Lubricant, Additive
Recommended restrictions on use: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet
Company: Andril Specialty Lubricants, a division of Chemtura Corporation
Manufacturer: Groot Egtenrayseweg 23
Supplier: 5928 PA Venlo
Netherlands
Telephone: +31-77 396 0340
Supplier: Ingersoll Rand Air solutions Hibon
Chemtura Manufacturing UK Limited
Tenax Road, Trafford Park
Manchester
United Kingdom
M17 1WT

Customer Service: +44 161 875 3800
Prepared by: msdsrequest@chemtura.com

Further information for the safety data sheet:
msdsrequest@chemtura.com

1.4 Emergency telephone number
Emergency telephone number: +44 (0) 1235 239 670 (NCEC)
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.
2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Additional Labelling:
EUH210 Safety data sheet available on request.
EUH208 Contains: Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide (P2O5), phosphorus sulfide (P2S5) and propylene oxideMay produce an allergic reaction.

2.3 Other hazards

No information available.

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

4. First aid measures

4.1 Description of first aid measures

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.
In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

In case of eye contact: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms: None known.

4.3 Indication of any immediate medical attention and special treatment needed
Treatment: For specialist advice physicians should contact the Poisons Information Service.

5. Firefighting measures
5.1 Extinguishing media
Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture
Specific hazards during firefighting: Burning produces noxious and toxic fumes.

5.3 Advice for firefighters
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.
Further information: Standard procedure for chemical fires.

6. Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: Wear suitable protective equipment.

6.2 Environmental precautions
Environmental precautions: No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Methods for cleaning up: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
Refer to protective measures listed in sections 7 and 8.

7. Handling and storage

7.1 Precautions for safe handling
Advice on safe handling: For personal protection see section 8. No special handling advice required.
Advice on protection against fire and explosion: Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place.
Advice on common storage: No special restrictions on storage with other products.
Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s)
Specific use(s): Raw material for industry

8. Exposure controls/personal protection

8.1 Control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment
Respiratory protection: No personal respiratory protective equipment normally required.
Hand protection: For prolonged or repeated contact use protective gloves.
Eye protection: Safety glasses
Skin and body protection: Protective suit
## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>No information available.</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>248 °C</td>
</tr>
<tr>
<td></td>
<td>Method: ASTM D92</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>pour point</td>
<td>-45 °C</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Density</td>
<td>0.899 g/cm³</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available.</td>
</tr>
<tr>
<td>Partition coefficient: n-</td>
<td>No information available.</td>
</tr>
<tr>
<td>octanol/water</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>221.8 mm²/s at 40 °C</td>
</tr>
<tr>
<td></td>
<td>Method: ASTM D 445</td>
</tr>
<tr>
<td></td>
<td>24.5 mm²/s at 100 °C</td>
</tr>
</tbody>
</table>
Original HIBON Positive displacement & Centrifugal blowers synthetic oil

SAFETY DATA SHEET
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Version 1.1  Revision Date 31.10.2014  Print Date 06.11.2014

Method: ASTM D 445
Relative vapour density : No information available.
Evaporation rate : No information available.

9.2 Other information
Oxidising potential : Note: No information available.

10. Stability and reactivity

10.1 Reactivity
Stable under recommended storage conditions.

10.2 Chemical stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
Hazardous reactions : Note: No hazards to be specially mentioned.

10.4 Conditions to avoid
Conditions to avoid : No data available
Contamination

10.5 Incompatible materials
Materials to avoid : Acids
Bases
Oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products : Carbon oxides
Nitrogen oxides (NOx)

11. Toxicological information

11.1 Information on toxicological effects
Acute toxicity
Acute oral toxicity : Remarks: Not classified due to lack of data.
Acute inhalation toxicity : Remarks: Not classified due to lack of data.
Acute dermal toxicity : Remarks: Not classified due to lack of data.
Skin corrosion/irritation
Skin irritation : Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation
Eye irritation : Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation
Sensitisation : Remarks: No data available
Remarks: Not classified due to lack of data.

Mutagenicity Assessment
Remarks : Not classified due to lack of data.

Carcinogenicity Assessment
Remarks : Not classified due to lack of data.

Reproductive toxicity Assessment
Remarks : Not classified due to lack of data.

Target Organ Systemic Toxicant - Single exposure
Remarks: Not classified due to lack of data.

Target Organ Systemic Toxicant - Repeated exposure
Remarks: Not classified due to lack of data.

Aspiration hazard
Aspiration toxicity : No aspiration toxicity classification

Toxicology Assessment
Further information : No data available
12. Ecological information

12.1 Toxicity

Toxicity to fish : Remarks:
                      No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks:
                                                    No data available

12.2 Persistence and degradability

Biodegradability : Result: No data available

12.3 Bioaccumulative potential

Bioaccumulation : Remarks:
                    No data available

12.4 Mobility in soil

Mobility : Remarks:
           No data available

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Additional ecological information : There is no data available for this product.

13. Disposal considerations

13.1 Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ADR
Not dangerous goods

IATA
Not dangerous goods

IMDG
Not dangerous goods

RID
Not dangerous goods

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard Legislation

96/82/EC Update: 2003
Directive 96/82/EC does not apply

Water contaminating class (Germany)

WGK 1 slightly water endangering

Notification status

US.TSCA
Not On TSCA Inventory

DSL
This product contains the following components that are not on the Canadian DSL nor NDSL.
15.2 Chemical Safety Assessment
No information available.

16. Other information
Further information
Original HIBON Positive displacement & Centrifugal blowers synthetic oil

Version 1.1  Revision Date 31.10.2014  Print Date 06.11.2014

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.