

## Safety Data Sheet according to WHS Regulations

Printing date 28.01.2021

Version Nr.: 11

Revision: 28.01.2021

Not classified as hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Trade name:** **BIOGEAR XP 150**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
  - SU2b Offshore industries
  - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** PC24 Lubricants, greases, release products
- **Process category**
  - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
  - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
  - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
  - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
  - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
- **Environmental release category**
  - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
  - ERC7 Use of functional fluid at industrial site
- **Application of the substance / the mixture** BIODEGRADABLE GEAR OIL
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  - BENJN.R.VICKERS & SONS LTD.
  - 6 Clarence Road
  - Leeds
  - LS10 1ND
  - United Kingdom
- **Importer**
  - VICKERS OILS (AUSTRALASIA) PTY LTD
  - 119 Lyndhurst Tce, Caboolture, Queensland, Australia. 4510.
  - Mobile: +61 (0) 425 840 351
- **Further information obtainable from:** Product safety department: [msds@vickers-oil.com](mailto:msds@vickers-oil.com)
- **Emergency telephone number:**
  - During normal opening times 08:30- 16:30 UK : +44 (0)113 386 7654
  - All other times: +44 (0) 1865 407333

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**

The product is not classified, according to the Globally Harmonised System (GHS).
- **Label elements**
- **GHS label elements** None
- **Hazard pictograms** None
- **Signal word** None
- **Hazard statements** None

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:** None
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions.  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Sand
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Information about storage conditions:**
  - Do not store in direct sunlight
  - Use within 5 years of manufacture.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:**

Oil resistant gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling

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### 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Oily
Colour:	Light yellow
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value: Not determined.

· **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

· Flash point: > 200 °C

· Flammability (solid, gas): Not applicable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure at 20 °C: 1 hPa

Density at 15 °C:	0.930 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· **Viscosity:**

Dynamic:	Not determined.
Kinematic at 40 °C:	Approx 150 cSt

· **Solvent content:**

Organic solvents: 0.0

· **Other information** No further relevant information available.

### 10 Stability and Reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

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- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

**Neutralised aliphatic phosphate ester**

Oral	LD50	>5000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

EC50/48h	>1000 mg/l (daphnia) (OECD 202)
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EC50/72h	>1000 mg/l (algae) (OECD 201)
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LC50/96h	>1000 mg/l (fish) (OECD 203)
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- **Persistence and degradability** Biodegradable according to OECD 301B
- **Other information:**

This product and its components have been evaluated by independent laboratories. Using these test results, Vickers Oils has determined that it meets the VGP definition of an Environmentally Acceptable Lubricant.

- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** The product can therefore be classed as practically Non-Toxic.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· <b>UN-Number</b> · <b>ADG, ADN, IMDG, IATA</b>	Not hazardous for transport
· <b>UN proper shipping name</b> · <b>ADG, ADN, IMDG, IATA</b>	Not hazardous for transport
· <b>Transport hazard class(es)</b> · <b>ADG, ADN, IMDG, IATA</b> · <b>Class</b>	Not hazardous for transport
· <b>Packing group</b> · <b>ADG, IMDG, IATA</b>	Not hazardous for transport
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Not hazardous for transport

### 15 Regulatory information

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

· <b>Australian Inventory of Industrial Chemicals</b>
CERS
Fatty acids, complex ester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol
Sulphurised EP additive
2,6-di-tert-butylphenol
Reaction Products of Benzeneamine, N-phenyl-with nonene(branched)
Amine Phosphate
Hydroxyalkyl Carboxylic Ester
Substituted Triazole
Amides, C8-18 (even numbered) and C18-unsatd., N, Nbis(hydroxyethyl)
Neutralised aliphatic phosphate ester
Reaction products of triethylene-tetramine and Fatty acids, C16-18,C18 unsaturated.

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2,5- Bis(octyldithio)-1,3,4-thiazole	
diphenylamine	
Phenol,2,4-bis(1,1-dimethylethyl)-	
2,2'-iminodiethanol	
<b>Standard for the Uniform Scheduling of Medicines and Poisons</b>	
2,2'-iminodiethanol	S5, S6
<b>Australia: Priority Existing Chemicals</b>	
None of the ingredients is listed.	

- **GHS label elements** None
- **Hazard pictograms** None
- **Signal word** None
- **Hazard statements** None
  
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
  
- **National regulations:**
  
- **Information about limitation of use:**  
Do not store in direct Sunlight.  
Use within 5 years of manufacture
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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 SDS:**  
Product safety department  
msds@vickers-oil.com
- **Contact:**  
Emergency 24 hrs Telephone numbers;  
Global (English) +44 (0) 1865 407333  
US and Canada (English) +1 202 464 2554  
Mexico (Spanish, English) +52 555 004 8763  
Brazil (Portuguese) +556 113 711 9144 (option 1)  
Chile (Spanish, English) +56 225 829 336  
China (Mandarin, English) Toll Free in CN 400 120 6011  
Australia (English) +61 2801 44558  
New Zealand (English) +64 9929 1483
- **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative
- **\* Data compared to the previous version altered.**