

**Assessment Date:** 19 October 2017

**Assessed by:** Mark Needham

**Position:** Health and safety advisor


**COSHH RISK ASSESSMENT**  
**TYGRIS EP2 LITHIUM GREASE**

(Tygris Industrial)

Risk Assessment No: 189/17

**Recommended Review Date:** October 2018

(or when the assessment is considered no longer valid, such as in the event of an accident, or whenever there is a significant change in the work to which the assessment relates).

CHEMICAL AGENTS / HAZARDOUS COMPONENT	PHYSICAL STATE	WORKPLACE EXPOSURE LIMIT (WEL) TWA Time weighted average	HAZARDOUS INFORMATION	ROUTES OF ENTRY	SAFETY DATA SHEET AVAILABLE?
<p>PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYLAND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS</p> <p>EINECS: 288-917-4 CAS: 85940-28-9</p>	<p><b>State:</b> Grease</p> <p><b>Colour:</b> Brown</p> <p><b>Odour:</b> Odourless</p> <p><b>Flash point:</b> &gt;200°C</p>	<p><u>Long term exposure limit (8-hour TWA reference period):</u></p> <p align="center"><b>No data available</b></p> <p><u>Short-term exposure limit (15-minute reference period):</u></p> <p align="center"><b>No data available</b></p>	<p>H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation.</p> 	<p>INHALATION: Not applicable.</p> <p>INGESTION: There may be irritation of the throat.</p> <p>SKIN CONTACT: There may be mild irritation at the site of contact. Continuous skin contact may cause skin sensitivity and dermatitis</p> <p>EYE CONTACT: There may be irritation and redness.</p>	<p>Yes 14/7/15</p>
WORK ACTIVITY	FREQUENCY AND DURATION OF USE	PERSONS EXPOSED	CONTROL MEASURES CURRENTLY IN PLACE	CURRENT RISK FACTOR (Likelihood x Severity)	
<p>1. Delivery from supplier Transfer to depot storage</p> <p>2. Transfer to warehouse storage and transfer to/from engineer's vehicle</p> <p>3. Spillage</p>	<p>Delivered every 3 months</p> <p>Infrequent / up to 10mins</p> <p>Unknown</p>	<p>Warehouse employee Delivery driver(s)</p> <p>Warehouse employee Engineer(s)</p> <p>Warehouse employee Engineer(s) Persons passing through spillage area</p>	<p><b>1, 2, 4, 5 &amp; 6</b> Product is kept in original sealed containers fit for the purpose, and clearly labelled. Engineers are required to make sure cartridge caps/container lids are tight and well-sealed after each use.</p> <p><b>2 &amp; 4</b> Product is to be stored in cool, well-ventilated, dry conditions, away from sources of ignition, heat or flames. Keep cartridge/container tightly closed. Avoid Strong oxidising agents/strong acids.</p>	<p><b>Likelihood x Severity score:</b> <b>2 – LOW 1x2</b> <i>(Unlikely / Slight)</i></p> <p><b>Likelihood x Severity score:</b> <b>2 – LOW 2x1</b> <i>(Possible / Negligible)</i></p>	

WORK ACTIVITY	FREQUENCY AND DURATION OF USE	PERSONS EXPOSED	CONTROL MEASURES CURRENTLY IN PLACE	CURRENT RISK FACTOR (Likelihood x Severity)
4. Storage in Company vehicles and/or at site	Up to 8 hours	Engineer(s)	<b>2, 3, 4, 5 &amp; 6.</b> All leaks will be stopped if possible and spillages cleared immediately or as soon as possible using dry earth or sand and placed into suitable waste containers. Do not discharge into drains or rivers.	<b>Likelihood x Severity score:</b> <b>4 – LOW 2x2</b> <i>(Possible / Slight)</i>
5. Transfer to work area	Up to 10mins	Engineer(s) Persons in work area vicinity Persons along travel route	<b>1, 2, 3, 4, 5 &amp; 6.</b> Engineers must ensure suitable first aid and eye wash facilities are readily available in the event of accident or incident.	<b>Likelihood x Severity score:</b> <b>4 – LOW 2x2</b> <i>(Possible / Slight)</i>
6. General purpose lubricant grease for applications involving a wide range of temperatures and high/extreme pressure conditions	Amount of use/time varies	Engineer(s) Persons passing through application area Persons close to exposure area	<b>2, 4 &amp; 6.</b> Product must only be used where there is adequate fresh air ventilation in the application area (especially in confined areas).	<b>Likelihood x Severity score:</b> <b>4 – LOW 2x2</b> <i>(Possible / Slight)</i>
7. Housekeeping procedure / disposal of used container	Up to 15mins	Engineer(s) Waste site personnel Persons passing through waste disposal area	<b>6.</b> Drinking and eating is prohibited in the application area. Smoking in the application area is strictly forbidden.  <b>2, 4, 5 &amp; 6</b> Engineers are STRICTLY FOBIDDEN to leave this product unattended, particularly if children or vulnerable persons are present. It MUST be kept tightly closed in safe secure storage at ALL times when not in use.  <b>6.</b> PPE (suitable snug-fitting protective safety clothing and footwear, protective nitrile gloves, eye protection) is readily available and is to be used in accordance with Company policy, manufacturer’s safety data sheet and current health and safety legislation. Respiratory protection is not required.  Any PPE/RPE is to be clean and intact prior to use.	<b>Likelihood x Severity score:</b> <b>2 – LOW 2x1</b> <i>(Possible / Negligible)</i>  <b>Likelihood x Severity score:</b> <b>1 – LOW 1x1</b> <i>(Unlikely / Negligible)</i>  <b>Likelihood x Severity score:</b> <b>4 – LOW 1x4</b> <i>(Unlikely / Severe)</i>  <b>Likelihood x Severity score:</b> <b>1 – LOW 1x1</b> <i>(Unlikely / Negligible)</i>

WORK ACTIVITY	FREQUENCY AND DURATION OF USE	PERSONS EXPOSED	CONTROL MEASURES CURRENTLY IN PLACE	CURRENT RISK FACTOR (Likelihood x Severity)
			<p><b>6.</b> Engineers are required to follow a suitable standard of personal hygiene practices (e.g. washing of hands after each use followed by application of barrier cream if required).</p> <p><b>6.</b> Engineers are required to self-check for any signs of contact dermatitis or other allergic reaction, such as skin irritation/eczema, when using this product. Any adverse reaction must be reported IMMEDIATELY. Any person who is susceptible to allergic reactions should not handle this product.</p> <p><b>6.</b> Engineers are to ensure fire-fighting equipment is located in the application area for appropriate fire hazard conditions.</p> <p><b>7.</b> Any empty cartridge or container shall be disposed of at a regulated (licenced) waste site and to the benevolence of the environment.</p> <p><b>1, 2, 3, 4, 5, 6 &amp; 7</b> Engineers have received clear instruction supported by information in the product's safe handling, use, storage and waste disposal. Engineers have been informed of the risks from the hazards they could be exposed to, the importance of health surveillance (including self-checks), and the measures in place to protect them from those hazards (e.g. the availability of PPE).</p> <p>Engineers shall take regular breaks from using this product.</p>	<p><b>Likelihood x Severity score:</b> <b>2 – LOW 2x1</b> <i>(Possible / Negligible)</i></p> <p><b>Likelihood x Severity score:</b> <b>6 – LOW 2x3</b> <i>(Possible / Moderate)</i></p> <p><b>Likelihood x Severity score:</b> <b>3 – MEDIUM 1x3</b> <i>(Unlikely/ Moderate)</i></p> <p><b>Likelihood x Severity score:</b> <b>1 – LOW 1x1</b> <i>(Unlikely / Negligible)</i></p> <p><b>Likelihood x Severity score:</b> <b>2 – LOW 1x2</b> <i>(Unlikely / Slight)</i></p>

**FIRST AID MEASURES**

**Inhalation:** Not applicable.

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Consult a doctor.

Further controls / action required	Date actioned	Signed

<b><i>COSHH RISK ASSESSMENT:</i></b>			<b><i>Tygris EP2 Lithium Grease</i></b>		
<b><i>Completed by:</i></b>	Mark Needham	<b><i>Signature:</i></b>		<b><i>Date:</i></b>	19 October 2017