SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Product name  Tribol GR 100-2 PD
Product code  468686-DE03
SDS no.  468686
Product registration number  Not applicable
Product type  Grease

1.2 Relevant identified uses of the substance or mixture and uses advised against

<table>
<thead>
<tr>
<th>Identified uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>General use of lubricants and greases in vehicles or machinery-Industrial</td>
</tr>
<tr>
<td>General use of lubricants and greases in vehicles or machinery-Professional</td>
</tr>
<tr>
<td>Use of the substance/ mixture</td>
</tr>
<tr>
<td>Grease for industrial applications</td>
</tr>
<tr>
<td>For specific application advice see appropriate Technical Data Sheet or consult our company representative.</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet
Supplier  Nordic Lubricants AB
Castrol Industrial Lubricants and Services
Box 49104
S-100 28 Stockholm
Sweden

Tel.: +46 (0)8-441 11 00
Fax.: +46 (0)8-651 01 35

E-mail address  MSDSadvice@bp.com

1.4 Emergency telephone number
EMERGENCY  Carechem: +44 (0) 1235 239 670 (24/7)
TELEPHONE NUMBER  Swedish Poisons Information Centre: 112 – Ask for Poison Information

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Product definition  Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Skin Sens. 1, H317
Aquatic Chronic 3, H412
See Section 16 for the full text of the H statements declared above.
See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

2.2 Label elements
Hazard pictograms
Signal word  Warning
Hazard statements  P317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements
Prevention  P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapour.
SECTION 2: Hazards identification

**Response**
P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
P333 + P313 - If skin irritation or rash occurs: Get medical attention.

**Storage**
Not applicable.

**Disposal**
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients**
- Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)
- Isodecyl diphenyl phosphite
- 2,6-di-tert-butyl-4-nonylphenol

**Supplemental label elements**
Not applicable.

**EU Regulation (EC) No. 1907/2006 (REACH)**

- **Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** Not applicable.

**Special packaging requirements**
- Containers to be fitted with child-resistant fastenings Not applicable.
- Tactile warning of danger Not applicable.

**2.3 Other hazards**

- **Results of PBT and vPvB assessment** Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.
- **Other hazards which do not result in classification** Defatting to the skin.
  Note: High Pressure Applications
  Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.
  See ‘Notes to physician’ under First-Aid Measures, Section 4 of this Safety Data Sheet.

SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

**Product definition**
Mixture

- Highly refined mineral oil and additives. Thickening agent.

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base oil - unspecified</td>
<td></td>
<td></td>
<td></td>
<td>[2]</td>
</tr>
<tr>
<td>Castor oil, hydrogenated, lithium salt</td>
<td>EC: 265-222-4 CAS: 64754-95-6</td>
<td>≤3</td>
<td>Not classified.</td>
<td>[2]</td>
</tr>
<tr>
<td>Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)</td>
<td>REACH #: 01-0000016000-92 EC: 412-780-3 Index: 042-004-00-5</td>
<td>≤3</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411</td>
<td>[1]</td>
</tr>
<tr>
<td>Isodecyl diphenyl phosphite</td>
<td>EC: 247-777-4 CAS: 26544-23-0</td>
<td>&lt;1</td>
<td>Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411</td>
<td>[1]</td>
</tr>
<tr>
<td>2,6-di-tert-butyl-4-nonylphenol</td>
<td>REACH #: 01-2120759723-46 EC: 224-320-7 CAS: 4306-88-1</td>
<td>&lt;1</td>
<td>Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)</td>
<td>[1]</td>
</tr>
</tbody>
</table>
SECTION 3: Composition/information on ingredients

Lithium hydroxide  EC: 215-183-4  s0.3  Acute Tox. 3, H301  [1] [2]
CAS: 1310-65-2  Skin Corr. 1A, H314
Eye Dam. 1, H318

See Section 16 for the full text of the H statements declared above.

Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact  In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

Skin contact  Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. In the event of any complaints or symptoms, avoid further exposure. Get medical attention.

Inhalation  If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.

Ingestion  Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if symptoms occur.

Protection of first-aiders  No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Potential acute health effects

Inhalation  Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion  No known significant effects or critical hazards.

Skin contact  Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

Eye contact  No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation  Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion  Ingestion of large quantities may cause nausea and diarrhoea.

Skin contact  Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Eye contact  Potential risk of transient stinging or redness if accidental eye contact occurs.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician  Treatment should in general be symptomatic and directed to relieving any effects. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.
**SECTION 5: Firefighting measures**

5.1 Extinguishing media

- **Suitable extinguishing media:** Use foam or all-purpose dry chemical to extinguish.
- **Unsuitable extinguishing media:** Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

5.2 Special hazards arising from the substance or mixture

- **Hazards from the substance or mixture:** In a fire or if heated, a pressure increase will occur and the container may burst.
- **Hazardous combustion products:** Combustion products may include the following: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide), metal oxide/oxides, nitrogen oxides (NO, NO₂ etc.)

5.3 Advice for firefighters

- **Special precautions for fire-fighters:** No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- **Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

- **For non-emergency personnel:** Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.

- **For emergency responders:** Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

- **Small spill:** Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

- **Large spill:** Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spill product. If emergency personnel are unavailable, contain spill material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 5 for firefighting measures.
See Section 8 for information on appropriate personal protective equipment.
See Section 12 for environmental precautions.
See Section 13 for additional waste treatment information.
SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid contact of split material and runoff with soil and surface waterways. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Not suitable

Prolonged exposure to elevated temperature

7.3 Specific end use(s) Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>AFS 2015:7 (Sweden). TWA: 1 mg/m³ 8 hours. Issued/Revised: 8/1996 Form: mist and fume STEL: 3 mg/m³ 15 minutes. Issued/Revised: 8/1996 Form: mist and fume</td>
</tr>
<tr>
<td>Base oil - unspecified</td>
<td>AFS 2015:7 (Sweden). STEL: 3 mg/m³ 15 minutes. Issued/Revised: 8/1996 Form: mist and fume TWA: 1 mg/m³ 8 hours. Issued/Revised: 8/1996 Form: mist and fume</td>
</tr>
<tr>
<td>Lithium 12-hydroxystearate</td>
<td>AFS 2015:7 (Sweden). STEL: 0.02 mg/m³ 15 minutes. Issued/Revised: 7/2012 Form: inhalable fraction</td>
</tr>
<tr>
<td>Castor oil, hydrogenated, lithium salt</td>
<td>AFS 2015:7 (Sweden). STEL: 0.02 mg/m³ 15 minutes. Issued/Revised: 7/2012 Form: inhalable fraction</td>
</tr>
<tr>
<td>Lithium hydroxide</td>
<td>AFS 2015:7 (Sweden). STEL: 0.02 mg/m³ 15 minutes. Issued/Revised: 7/2012 Form: inhalable fraction</td>
</tr>
</tbody>
</table>

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived No Effect Level

<table>
<thead>
<tr>
<th>Product name</th>
<th>Product code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tribol GR 100-2 PD</td>
<td>468686-DE03</td>
</tr>
</tbody>
</table>

Version 5 Date of issue 13 December 2018 Format Sweden Language ENGLISH
SECTION 8: Exposure controls/personal protection

No DNELs/DMELs available.

Predicted No Effect Concentration
No PNECs available

8.2 Exposure controls
Appropriate engineering controls
Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.
All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated.
Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.
Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.
The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Individual protection measures

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.
For protection against metal working fluids, respiratory protection that is classified as “resistant to oil” (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m3), or any powered, air-purifying respirator equipped with hood or helmet and HEPA filter (for oil mists less than 125 mg/m3). Where organic vapours are a potential hazard during metalworking operations, a combination particulate and organic vapour filter may be necessary.
The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Ey/face protection
Skin protection
Hand protection

Safety glasses with side shields.

General Information:

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.

Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type.
Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.
If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Product name Tribol GR 100-2 PD  Product code 468686-DE03
Version 5 Date of issue 13 December 2018 Format Sweden (Sweden)
Language ENGLISH
**Recommended breakthrough times as above.**

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

**Glove Thickness:**

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

**Skin and body**

Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

**Refer to standards:**

Respiratory protection: EN 529
Gloves: EN 420, EN 374
Eye protection: EN 166
Filtering half-mask: EN 149
Filtering half-mask with valve: EN 405
Half-mask: EN 140 plus filter
Full-face mask: EN 136 plus filter
Particulate filters: EN 143
Gas/combined filters: EN 14387

**Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

---

**SECTION 9: Physical and chemical properties**

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

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical state</th>
<th>Grease</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Brown. [Dark]</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Drop Point</td>
<td>&gt;190 °C</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>Open cup: 219°C (426.2°F) [Estimated. Based on Lubricants - Base Oils]</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

**Product name**: Tribol GR 100-2 PD  
**Product code**: 468868-DE03  
**Version**: 5  
**Date of issue**: 13 December 2018  
**Format**: Sweden (Sweden)  
**Language**: ENGLISH
SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits
Not available.

Vapour pressure
Not available.

Vapour density
Not available.

Relative density
Not available.

Density
<1000 kg/m³ (<1 g/cm³) at 20°C

Solubility(ies)
Insoluble in water.

Partition coefficient: n-octanol/water
Not available.

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
Not available.

Penetration Number (0.1 mm)
260 to 280 at 25°C

Explosive properties
Not available.

Oxidising properties
Not available.

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity
No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

10.2 Chemical stability
The product is stable.

10.3 Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials
Reactive or incompatible with the following materials: oxidising materials.

10.6 Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>66800.6 mg/kg</td>
</tr>
</tbody>
</table>

Information on likely routes of exposure
Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Inhalation
Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion
No known significant effects or critical hazards.

Skin contact
Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

Eye contact
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation
No specific data.

Ingestion
No specific data.

Skin contact
Adverse symptoms may include the following: irritation, redness, dryness, cracking.

Eye contact
No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Product name: Tribol GR 100-2 PD  Product code: 468686-DE03
Version 5  Date of issue: 13 December 2018  Format: Sweden (Sweden)  Language: ENGLISH
SECTION 11: Toxicological information

| Inhalation                          | Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. |
| Ingestion                          | Ingestion of large quantities may cause nausea and diarrhoea.                                      |
| Skin contact                       | Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.        |
| Eye contact                        | Potential risk of transient stinging or redness if accidental eye contact occurs.                   |
| Potential chronic health effects    |                                                                                                      |
| General                            | No known significant effects or critical hazards.                                                 |
| Carcinogenicity                    | No known significant effects or critical hazards.                                                  |
| Mutagenicity                       | No known significant effects or critical hazards.                                                  |
| Developmental effects              | No known significant effects or critical hazards.                                                  |
| Fertility effects                  | No known significant effects or critical hazards.                                                  |

SECTION 12: Ecological information

12.1 Toxicity

| Environmental hazards | Harmful to aquatic life with long lasting effects. Based on data available for this or related materials. |

12.2 Persistence and degradability

Expected to be biodegradable.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

| Soil/water partition coefficient (Koc) | Not available. |
| Mobility                               | Non-volatile. Grease. insoluble in water. |

12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

| Product                          |                                                                                                      |
| Methods of disposal              | Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. |
| Hazardous waste                  | Yes.                                                                                                   |

| European waste catalogue (EWC)   |                                                                                                      |
| Waste code                       | Waste designation                                                                                     |
| 12 01 12*                        | spent waxes and fats                                                                                   |

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.

| Packaging                        |                                                                                                      |
| Methods of disposal              | Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. |
| European waste catalogue (EWC)   |                                                                                                      |
| Waste code                       | European waste catalogue (EWC)                                                                           |
| 15 01 10*                        | packaging containing residues of or contaminated by hazardous substances                               |

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
SECTION 13: Disposal considerations

Methods of disposal

The regulations regarding manufacturers’ responsibility for packaging material waste is regulated in “Förordningen om producentansvar för förpackningar”. Packaging materials are to be reused or recycled in accordance with the goals outlined in this regulation. The company complies with this manufacturer’s responsibility through its association with REPA, which is a subsidiary company of four materials handling companies. The materials handling companies collect, remove and process used and sorted packaging materials through the employment of contractors. Questions regarding collection of packaging materials on a local basis may be directed to the materials company and its contractors. For further information, contact REPA, www.repa.se.

Scrape the package well, recover and add the remainders in the process where the product is used, or send for special waste treatment. Send to a certified recycler/receiver.

References

Commission 2014/955/EU
Directive 2008/98/EC

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user

Not available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Other regulations

REACH Status

The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

United States inventory (TSCA 8b)

All components are listed or exempted.

Australia inventory (AICS)

All components are listed or exempted.

Canada inventory

At least one component is not listed in DSL but all such components are listed in NDSL.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (ENCS)

At least one component is not listed.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory (PICCS)

At least one component is not listed.
### SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Taiwan Chemical Substances Inventory (TCSI)</th>
<th>All components are listed or exempted.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seveso Directive</td>
<td>This product is not controlled under the Seveso Directive.</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

#### Abbreviations and acronyms
- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- CAS = Chemical Abstracts Service
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- CSA = Chemical Safety Assessment
- CSR = Chemical Safety Report
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EINECS = European Inventory of Existing Commercial chemical Substances
- ES = Exposure Scenario
- EUH statement = CLP-specific Hazard statement
- EWC = European Waste Catalogue
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- OECD = Organisation for Economic Co-operation and Development
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- RRN = REACH Registration Number
- SADT = Self-Accelerating Decomposition Temperature
- SVHC = Substances of Very High Concern
- STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
- STOT-SE = Specific Target Organ Toxicity - Single Exposure
- TWA = Time weighted average
- UN = United Nations
- UVCB = Complex hydrocarbon substance
- VOC = Volatile Organic Compound
- vPvB = Very Persistent and Very Bioaccumulative

#### 15.2 Chemical safety assessment
A Chemical Safety Assessment has been carried out for one or more of substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

---

**Product name**: Tribol GR 100-2 PD  
**Product code**: 468686-DE03  
**Version**: 5  
**Date of issue**: 13 December 2018  
**Format**: Sweden (Sweden)  
**Language**: ENGLISH  
**Page**: 11/19
### SECTION 16: Other Information

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Sens. 1, H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 3, H412</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Full text of abbreviated H</td>
<td></td>
</tr>
<tr>
<td>statements</td>
<td></td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Full text of classifications</td>
<td></td>
</tr>
<tr>
<td>[CLP/GHS]</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 3, H301</td>
<td>ACUTE TOXICITY (oral) - Category 3</td>
</tr>
<tr>
<td>Aquatic Acute 1, H400</td>
<td>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1, H410</td>
<td>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2, H411</td>
<td>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</td>
</tr>
<tr>
<td>Skin Corr. 1A, H314</td>
<td>SKIN CORROSION/IRRITATION - Category 1A</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td>SKIN CORROSION/IRRITATION - Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1, H317</td>
<td>SKIN SENSITISATION - Category 1</td>
</tr>
<tr>
<td>Skin Sens. 1B, H317</td>
<td>SKIN SENSITISATION - Category 1B</td>
</tr>
</tbody>
</table>

**History**

- **Date of issue/ Date of revision**: 13/12/2018.
- **Date of previous issue**: 26/04/2018.
- **Prepared by**: Product Stewardship

- **Indicates information that has changed from previously issued version.**

**Notice to reader**

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.
Appendix to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture

<table>
<thead>
<tr>
<th>Product definition</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>468686-DE03</td>
</tr>
<tr>
<td>Product name</td>
<td>Tribol GR 100-2 PD</td>
</tr>
</tbody>
</table>

Section 1: Title

| Short title of the exposure scenario | Identified use name: General use of lubricants and greases in vehicles or machinery - Industrial |
| List of use descriptors            | Process Category: PROC01, PROC02, PROC08b, PROC09 |
|                                   | Sector of end use: SU03 |
|                                   | Subsequent service life relevant for that use: No. |
|                                   | Environmental Release Category: ERC04, ERC07 |
|                                   | Specific Environmental Release Category: ATIEL-ATC SPERC 4.Biv1 |

Processes and activities covered by the exposure scenario

Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

Product characteristics:

- Physical state: Liquid, vapour pressure < 0.5 kPa
- Concentration of substance in product: Covers use of substance/product up to 100 % (unless stated differently)
- Frequency and duration of use: Covers daily exposures up to 8 hours
- Other conditions affecting workers exposure: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented

Contributing scenarios: Operational conditions and risk management measures

General measures applicable to all activities:
Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product also via contamination on hands.

General exposures (closed systems):
No other specific measures identified.
Initial factory fill of equipment Use in contained systems:
No other specific measures identified.
Initial factory fill of equipment open systems:
Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 4 hours.
Operation of equipment containing engine oils and similar Use in contained systems:
No other specific measures identified.
Equipment cleaning and maintenance:
Drain down system prior to equipment break-in or maintenance. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.
Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature):
Drain down and flush system prior to equipment break-in or maintenance. Provide extract ventilation to emission points when contact with warm (>50°C) lubricant is likely. Wear chemical-resistant gloves (tested to EN374) in combination with intensive management supervision controls. Retain drain-downs in sealed storage pending disposal.

Tribol GR 100-2 PD General use of lubricants and greases in vehicles or machinery - Industrial
or for subsequent recycle.

Storage:
Store substance within a closed system.

---

**Section 2.2: Control of environmental exposure**

**Amounts used:**
- **EU tonnage of risk determining substance per year:** 2.63E+3 Tonnes/year

**Frequency and duration of use:**
- **Emission days:** 300

**Environment factors not influenced by risk management:**
- **Local freshwater dilution factor:** 10
- **Local marine water dilution factor:** 100

**Other conditions affecting environmental exposure:**
- **Release fraction to air (after typical onsite RMMs):** 5.00E-05
- **Release fraction to soil from process (after typical onsite RMMs):** 0
- **Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan):** Not available.

**Technical conditions and measures at process level (source) to prevent release:** Common practices vary across sites thus conservative process release estimates used.

**Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:**
- Prevent discharge of undissolved substance to or recover from onsite wastewater.
- User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant.

**Organisational measures to prevent/limit release from site:** Do not apply industrial sludge to natural soils.
- Sewage sludge should be incinerated, contained or reclaimed.

**Conditions and measures related to sewage treatment plant:**
- **Estimated substance removal from wastewater via on-site sewage treatment:** 69.1
- **Assumed domestic sewage treatment plant flow rate (m³/d):** 2.00E+3
- **Maximum allowable site tonnage (Mₘₐₓₖ) based on release following total wastewater treatment removal as product:** 7594049

**Conditions and measures related to external treatment of waste for disposal:**
- External treatment and disposal of waste should comply with applicable local and/or national regulations.

**Conditions and measures related to external recovery of waste:**
- External recovery and recycling of waste should comply with applicable local and/or national regulations.

---

**Section 3: Exposure estimation and reference to its source**

**Exposure estimation and reference to its source - Environment**
- **Exposure assessment (environment):** Used ECETOC TRA model (May 2010 release).

**Exposure estimation and reference to its source - Workers**
- **Exposure assessment (human):** The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

---

**Section 4: Guidance to check compliance with the exposure scenario**
| Environment | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES |
| Health | Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
Annex to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture

<table>
<thead>
<tr>
<th>Product definition</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>468686-DE03</td>
</tr>
<tr>
<td>Product name</td>
<td>Tribol GR 100-2 PD</td>
</tr>
</tbody>
</table>

Section 1: Title

<table>
<thead>
<tr>
<th>Short title of the exposure scenario</th>
<th>General use of lubricants and greases in vehicles or machinery - Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of use descriptors</td>
<td><strong>Identified use name:</strong> General use of lubricants and greases in vehicles or machinery - Professional</td>
</tr>
<tr>
<td></td>
<td><strong>Process Category:</strong> PROC01, PROC02, PROC08a, PROC08b, PROC20</td>
</tr>
<tr>
<td></td>
<td><strong>Sector of end use:</strong> SU22</td>
</tr>
<tr>
<td></td>
<td><strong>Subsequent service life relevant for that use:</strong> No</td>
</tr>
<tr>
<td></td>
<td><strong>Environmental Release Category:</strong> ERC09a, ERC09b</td>
</tr>
<tr>
<td></td>
<td><strong>Specific Environmental Release Category:</strong> ESVOC SpERC 9.6b.v1</td>
</tr>
</tbody>
</table>

Processes and activities covered by the exposure scenario

- Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

Product characteristics:

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid, vapour pressure &lt; 0.5 kPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration of substance in product:</td>
<td>Covers use of substance/product up to 100 % (unless stated differently)</td>
</tr>
<tr>
<td>Frequency and duration of use:</td>
<td>Covers daily exposures up to 8 hours</td>
</tr>
<tr>
<td>Other conditions affecting workers exposure:</td>
<td>Assumes use at not more than 20°C above ambient temperature, unless stated differently</td>
</tr>
<tr>
<td></td>
<td>Assumes a good basic standard of occupational hygiene is implemented</td>
</tr>
</tbody>
</table>

Contributing scenarios: Operational conditions and risk management measures

General measures applicable to all activities:

- Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product also via contamination on hands.

- Operation of equipment containing engine oils and similar Use in contained systems:

  No other specific measures identified.

- Material transfers Non-dedicated facility:

  Avoid carrying out activities involving exposure for more than 4 hours. Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

- Equipment cleaning and maintenance Dedicated facility:

  Drain down system prior to equipment break-in or maintenance. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

- Storage:

  Store substance within a closed system.
Section 2.2: Control of environmental exposure

Amounts used:
EU tonnage of risk determining substance per year: 5.39 Tonnes/year

Frequency and duration of use:
Emission days: 365

Environment factors not influenced by risk management:
Local freshwater dilution factor: 10
Local marine water dilution factor: 100

Other conditions affecting environmental exposure:
Release fraction to air (after typical onsite RMMs): 1.00E-04
Release fraction to soil from process (after typical onsite RMMs): 1E-03
Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan): Not available.

Technical conditions and measures at process level (source) to prevent release:
Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:
Prevent discharge of undissolved substance to or recover from onsite wastewater.
Organisational measures to prevent/limit release from site:
Do not apply industrial sludge to natural soils.
Sewage sludge should be incinerated, contained or reclaimed.

Conditions and measures related to sewage treatment plant:
Estimated substance removal from wastewater via on-site sewage treatment: 69.1
Assumed domestic sewage treatment plant flow rate (m3/d): 2.00E+3
Maximum allowable site tonnage (Mmax) based on release following total wastewater treatment removal as product: 19111

Conditions and measures related to external treatment of waste for disposal:
External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste:
External recovery and recycling of waste should comply with applicable local and/or national regulations.

Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure estimation and reference to its source - Workers
Exposure assessment (human): The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Section 4: Guidance to check compliance with the exposure scenario

Environment
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES.
<table>
<thead>
<tr>
<th>Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</td>
</tr>
</tbody>
</table>