Leather Honing Wheel Oil

1. Identification of substance / preparation and company

1.1. Identification of substance or preparation
Trade name: Leather Honing Wheel Oil
Suppliers article no: 11488

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

1.3. Details of the supplier of the material safety data sheet
SUPPLIER
Company: Tormek AB
Address: Torphyttevägen 40
Area code / City: 711 34 Lindesberg
Country: Sverige
E-mail: info@tormek.se
Web page: www.tormek.com
Telephone: +46 581 14790
Fax: +46 581 10930

Contact:
Name: Robert Karlsson
E-mail: info@tormek.se
Telephone: +46 581 14790

1.4. Emergency telephone
+46 581 147 90 kl. 8:00 - 16:00

2. Hazards identification
2.1. Classification of the substance or mixture
The mixture is not classified as dangerous according to regulation (EG) 1272/2008 (CLP).

2.2. Label elements
This product has no duty to mark.

2.3. Other hazards
Contains a petroleum based mineral oil. May cause respiratory irritation or other effects on the lungs if prolonged or repeated inhalation of airborne oil mist over recommended exposure limits for mineral oil mist. Symptoms of respiratory irritation are for example cough and breathing difficulties.

3. Composition / information on ingredients
3.2. Mixture composed of binder / polishing compound / grinding compound

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>REACH no.</th>
<th>EC no.</th>
<th>CAS no.</th>
<th>Weight</th>
<th>(EG) 1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil(petroleum)</td>
<td>01-2119487078-27-xxxx</td>
<td>232-455-8</td>
<td>8042-47-5</td>
<td>&gt;99%</td>
<td>-</td>
</tr>
</tbody>
</table>
MATERIAL SAFETY DATA SHEET
in accordance with (EG) no 1907/2006

Leather Honing Wheel Oil
Revised: 2017-10-26

4. First aid measures
4.1 Description of first aid measures
Inhalation: In case of symptoms resulting from inhalation of smoke, fog or vapor from the product:
Fresh air, warmth and rest, preferably in a comfortable sitting position.
Ingestion: Rinse mouth immediately and drink plenty of water (200-300 ml).
Skin contact: Immediately remove all contaminated clothing. Wash with plenty of soap and water.
Eye contact: Rinse immediately with plenty of water. Keep your eyelids wide apart. Preferably use
lukewarm water with soft water jet/shower. If possible, remove any contact lenses.

4.2. Most important symptoms and effects, both acute and delayed
Inhalation: Contains a petroleum based mineral oil. May cause respiratory irritation or other
effects on the lungs if prolonged or repeated inhalation of airborne oil mist.
Ingestion: Nausea and diarrhea may occur.
Skin contact: High pressure injection under the skin can cause severe damage.
Eye contact: Few or no symptoms expected.

4.3. Indication of immediate medical attention and special treatment needed
Treat symptomatically.

5. Fire-fighting measures
5.1. Extinguishing media
Suitable extinguishing media:  Water mist (trained personnel only) - Foam - Carbon dioxide (CO2) - Powder
Unsafe extinguishing media:  Avoid strong water jet directly against the fire. Risk of spreading the fire.

5.2. Special hazards arising from the substance or mixture
No known.

5.3. Advice for firefighters
Use respiratory protection with closed system and suitable protective clothing in case of fire.
Other information
Contain and collect the extinguishing water. Prevent the extinguishing water and other materials from the
fire fighting to flow into water courses, drains or drinking water sources.

6. Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
Spill of the product causes a risk of slipping. Wear appropriate protective equipment (see section 8).

6.2. Environmental precautions
Stop or enclose the leak at the source, if it can be done safely. Prevent spillage from entering water courses
or drains. If this is not possible, contact the relevant authorities immediately.

6.3. Methods and materials for containment and cleaning up
Contain spill with sand, soil or suitable absorbent. Transfer collected product and other contaminated
materials to suitable containers for recycling or safe disposal.

6.4 Reference to other sections
For personal protective equipment see section 8. For disposal, refer to section 13.
MATERIAL SAFETY DATA SHEET
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Revised: 2017-10-26

7. Handling and storage

7.1. Precautions for safe handling
Preventive measure for handling:
Use working methods that minimize the appearance of oil mist. Avoid inhalation of vapor/mist. Avoid contact with skin and eyes. Use suitable protective equipment (see section 8). Avoid spillage into the environment.
Hygiene:
Do not handle near food and drink. Do not eat, drink or smoke during handling. Wash your hands thoroughly after handling. Replace immediately soiled clothing.

7.2. Conditions for safe storage, including any incompatibilities
Store in the original container and at temperatures between 15°C and 25°C. Avoid heat, flames and other sources of ignition.

7.3. Specific end use(s)
See section 1.2.

8. Exposure controls / personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-no</th>
<th>Threshold level mg/m3</th>
<th>Short-time value mg/m3</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil mist, incl. oil smoke</td>
<td>-</td>
<td>1 ppm</td>
<td>1 ppm</td>
<td>1990</td>
</tr>
<tr>
<td>Source: AFS 2011:18</td>
<td></td>
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</tr>
</tbody>
</table>

Exposure limits
DNEL: inhalation: 160 mg Aerosol/m3/8h
DNEL: dermal: 220 mg/kg/8 h

8.2. Exposure controls
Technical actions: Ensure adequate ventilation on workstation. Ventilation should be effective. Limit values shall not be exceeded and the risk of inhalation of vapors shall be minimized.
Eye / face protection: Protective goggles or face shield should be used in case of splashes.
Hand protection:
Chemical resistant gloves should be used for prolonged or repeated contact. Wear protective gloves made of:
> 8h Nitrile rubber. Viton (fluoride rubber)
4-8h Silver Shield/4H
1-4h Barrier (PE/PA/PE)
<1h Natural rubber (latex). Neoprene Polyvinyl chloride (PVC). Butyl rubber.
Skin protection: In case of skin contact, suitable protective clothing should be used.
Respiratory protection: In case of insufficient ventilation and at risk of inhalation of oil mist, suitable respiratory protection with combination filter (type A2 / P3) may be used.
Thermal risks: No information.
Environmental exposure controls: Prevent spillage from entering surface water or sanitary sewer systems. If this is not possible, contact the relevant authorities immediately. For waste disposal see section 13.
Leather Honing Wheel Oil

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties
Appearance: Fluid liquid
Colour: Colorless
Odour: Odorless

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value / unit</th>
<th>Method/ref</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH concentrate</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum flow temperature</td>
<td>-12°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>340 - 550°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 240°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition limits</td>
<td>200°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper / Lower flammability limit or explosion limit</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt;0,13 hPa (20°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>0,869 g/cm³ (15°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>0,84 - 0,88</td>
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</tr>
<tr>
<td>Solubility</td>
<td>Not soluble in water.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
<td></td>
<td></td>
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<tr>
<td>Decomposition temperature</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>68 mm2/s (40°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing</td>
<td></td>
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</tr>
</tbody>
</table>

9.2. Other information
None.

10. Stability and reactivity
10.1. Reactivity
No known.

10.2. Chemical stability
Stable at recommended storage and handling conditions.

10.3. Possibility of hazardous reactions
No known.

10.4. Conditions to avoid
In case of heat and fire, very toxic fumes / gases may form.
Do not expose to heat / sparks / open flames / hot surfaces. - Smoking forbidden.

10.5. Incompatible materials
Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products
No dangerous decomposition products known.
11. Toxicological information

11.1. Information on toxicological effects
LD50 orally > 5000 mg/kg (rat) (OECD 401)
LD50 dermal >2000 mg/kg (rabbit) (OECD 402)
LC50 inhalation > 5 mg/l (rat) (OECD 403)

Acute toxicity
The product is not classified as toxic.

Corrosive / irritating to the skin
The product is not classified as irritating. Prolonged skin contact may cause redness and irritation.

Serious eye damage/eye irritation
The product is not classified as irritating. May cause transient eye irritation.

Causes allergies in respiratory system and skin
The product is not classified as sensitizing.

Respiratory / skin sensitization
Not applicable.

Germ cell mutagenicity
The product is not classified as mutagenic.

Carcinogenicity
The product is not classified as carcinogen. Not classified as carcinogenic, when initial substance/oil contains <3% DMSO extract, according to standard IP 346 as determined by the Institute of Petroleum in London.

Toxicity at repeated exposure
The product is not classified as toxic.

Reproductive toxicity
The product is not classified as toxic to reproduction.

Single exposure (STOT)
Not applicable.

Repeated exposure (STOT)
Not applicable.

Aspiration hazard
Not applicable.

12. Ecological information

12.1 Toxicity
Not classified as hazardous to the environment. However, the product must not be emptied into sewers or in watercourses or deposited where it may affect soil or surface water.
EC50 48 hours, Daphnia, mg/l: >100 mg/l
LC50 96 hours, fish, mg/l: >100 mg/l

12.2 Persistence and degradability
Not readily biodegradable according to applicable EC criteria.

12.3 Bioaccumulative potential
The product has not been tested.

12.4 Mobility
The product has not been tested. Emissions of the product may contaminate soil and groundwater.

12.5 Result of PBT and vPvB assessment
The product is not, or does not contain, a substance considered to be PBT or vBvP.

12.6 Other adverse effects
Avoid emissions into the environment.
13. Disposal considerations
13.1. Waste treatment methods
Waste disposal: Waste from the product must not be allowed to contaminate soil or water, or to be released into the environment. Handled as hazardous waste in accordance with Waste Ordinance 2011: 927. Spill oils are divided into regenerable, those destined for combustion and the types that must be destroyed. In order to obtain a good waste recycling, it is important not to mix these groups.

Suggestions for waste codes for the product:
130205 - Mineral-based non-chlorinated engine, transmission and lubricating oils

Packaging: Suggested waste codes for cleaned packaging:
15 01 02 - Plastic packaging
15 01 04 - Metal packaging

Suggestions for waste codes for uncleaned packaging:
50110 - Packaging containing residues or contaminated by dangerous substances

14. Transport information
Product classified as dangerous goods: The product is not classified as dangerous goods according to ADR / RID, IMDG, ICAO / IATA.

14.1 UN-number Not applicable.
14.2 Official shipping name Not applicable.
14.3 Hazard class for transport Not applicable.
14.4 Packing group Not applicable.
14.5 Environmental hazards Not applicable.
14.6 Special precautions Not applicable.
14.7 Bulk transport according to Ann.II of MARPOL 73/78 and the IBC Code Not applicable.

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

EC regulations

National regulations
Work environment constitution "Exposure limits and actions against air pollution", AFS 2011:18.

15.2. Chemical safety assessment
Information: Chemical safety assessment has not been carried out.

16. Other information
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