1. Identification of the substance/mixture & of the company/undertaking

1.1 Product Identifier
Trade Name : T1701

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture : Oil Additive

Recommended restrictions on use : At this time we do not have information on restrictions. They will be included when available.

1.3 Details of the supplier of the safety data sheet
Company : Unit 7 Clovelly Business Park, Clovelly Road, Southbourne Industrial Estate, Southbourne, Emsworth, Hampshire PO10 8PE

1.4 Emergency telephone number
Emergency phone number : (Office hours only): 01405 768815

2. Hazards Identification.

2.1 Classification of the substance or mixture

Classification according to EU Directive 1999/45/EC
Hazard Symbol/Category of danger Risk Phrases
None None

Classification according to Regulation (EC) No 1272/2008
Refer to Section 16.

For the wording of the listed R phrases or H statements, refer to section 16.

2.2 Label elements

Labelling according to EU Directive 1999/45/EC
Risk Phrases R52/53: Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Safety Phrases S61: Avoid release to the environment. Refer to special instructions/safety data sheet

Labelling according to Regulation (EC) No 1272/2008
Refer to Section 16.

2.3 Other hazards
No other information is available

3. Composition/Information on Ingredients.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Identifiers</th>
<th>Classification 67/548/EEC</th>
<th>Classification EC/1272/2008</th>
<th>Concentration Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate</td>
<td>EC – 272-028-3 CAS – 68649-42-3</td>
<td>Irritant R36/38 Dangerous for the environment R51/53</td>
<td>Eye Irritation 2 H319 Skin Irritation 2 H315 Aqua Chronic 2 H411</td>
<td>5-10%</td>
</tr>
</tbody>
</table>
4. First Aid Measures.

4.1 Description of first aid measures

Eye Contact: Flush with plenty of clean water for at least 15 minutes. If irritation persists obtain medical attention.

Skin Contact: Wash off with water. The application of skin reconditioning (emollient) cream can be beneficial.

Inhalation: Remove to fresh air. If symptoms persist, seek medical advice.

Ingestion: Milk or water to drink may be beneficial. Do not induce vomiting. Call for medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further information available

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically

5. Fire Fighting Measures:

5.1 Extinguishing Media

Suitable Extinguishing Media: Foam, Dry Powder, Co2, fine water spray suitable.

Unsuitable Extinguishing Media: Do not use water jets. Do not spray water directly into storage containers due to boil-over danger.

5.2 Special hazards arising from the substance or mixture

Not classed as flammable. Combustion can produce a variety of compounds including oxides of carbon, water vapour and unidentified organic and inorganic compounds, some of which may be toxic.

5.3 Advice for fire fighters

Wear self contained breathing apparatus and protective clothing. Cool closed containers exposed to the fire with water spray. Prevent water run-off from discharging into drains.


6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Use protective clothing, chemical eye goggles and PVC or rubber gloves. Avoid contact with skin and eyes.

6.2 Environmental precautions

Inform authorities in case of contamination of water or sewage system. Do not allow product to soak into drains or water courses.

6.3 Methods and materials for containment and cleaning up

Soak liquid in absorbent material and collect solids in a container. Wash down floor area as spillages can be slippery. Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent. Use only in well ventilated areas.

6.4 Reference to other sections

For personal protection refer to section 8

7. Handling and Storage.
7.1 Precautions for safe handling
Avoid contact with skin and eyes. Observe good standards of industrial hygiene. Keep in tightly closed containers. Take note of emission threshold.

7.2 Conditions for safe storage, including any incompatibilities
Keep containers tightly closed. Store between 10-35°C. Protect from frost. Do not store in extremes of temperature or near foodstuffs.

7.3 Specific end uses
To be used as a lubricant and oil additive.

8. Exposure Controls/Personal Protection.

8.1 Control parameters
<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>8hr TWA</th>
<th>15min STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Oil</td>
<td>WEL</td>
<td>5 mg/m3</td>
</tr>
</tbody>
</table>

8.2 Exposure controls
Respiratory Protection: Unlikely to be necessary where adequate ventilation is provided.
Eyes: Chemical eye goggles should be worn.
Hand: PVC or rubber gloves are recommended.
Skin: Use protective clothing. Remove contaminated clothing and wash with soap and water.

8.2.3 Environmental exposure controls
Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.


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>Clear Amber liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Bland</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>&lt;0°C</td>
</tr>
<tr>
<td>Initial Boiling Point &amp; Boiling Range</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Flammability</td>
<td>Combustible</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper/Lower Flammability Limits</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>(Water=100) &gt;1</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.930 typical @ 20°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition Coefficient (Oct/Water):</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto Ignition Temperature</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&gt;20°C @ 40°C</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not determined</td>
</tr>
<tr>
<td>Oxidising Properties</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

9.2 Other Information
No other information available.

10. Stability and Reactivity.

10.1 Reactivity
No information available

10.2 Chemical Stability
No decomposition if stored and applied as directed.
10.3 Possibility of hazardous reactions
No information available.

10.4 Conditions to Avoid:
Avoid naked flames, hot surfaces and other high temperature sources.

10.5 Incompatible materials
Strong oxidising agents, strong acids. May soften some rubbers and other elastomeric sealing agents.

10.6 Hazardous decomposition products
Product is stable under normal conditions.

11. Toxicological Information.

11.1 Information on toxicological effects

Eyes: Contact may cause moderate irritation and stinging.

Skin: Brief or occasional contact is unlikely to cause any significant reaction. Prolonged or repeated contact with the product may cause drying of the skin and/or slight irritation.

Inhalation: Excessive exposure to mists caused by atomising systems may cause irritation to eyes and respiratory tract.

Ingestion: Low order of acute toxicity. Ingestion of this product is not regarded as a significant health hazard, likely to arise in normal use. Swallowing of significant amounts may cause discomfort, nausea and irritation of digestive tract.

Acute Toxicity: Zinc Alkyl Dithiophosphate LD50 Oral (rat) >3000 mg/kg

12. Ecological Information.

12.1 Toxicsity
Product is harmful to aquatic organisms. The components are not expected to be highly toxic to aquatic life. If released to water, the product may deplete the oxygen supply to bottom dwelling organisms.

Eco-toxicity: Zinc Alkyl Dithiophosphate LC50 96hrs (fish) 22 mg/l
EC50 48hrs (algae) 2.2mg/l

12.2 Persistence and Degradability:
Not expected to bio-accumulate. Small quantities will be absorbed into the upper soil layer where bio-degradation takes place. Large quantities may penetrate into anaerobic soil layers in which some organic components (e.g. mineral oil) may persist.

12.3 Bio-accumulative potential
Mineral oil can have a potential to bio-accumulate.

12.4 Mobility in soil
The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment
No information

12.6 Other adverse effects
Not known.


13.1 Waste treatment methods
Product should be disposed of via an authorised waste disposal contractor in accordance with all local and national regulations. Dispose of empty containers in accordance with local and national regulations. Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product.
14. Transport Information.

Product is not classified as hazardous for transport.

15. Regulatory Information.

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


This mixture has been classified and labelled in accordance with 1999/45/EC. Classification in accordance with EC 1272/2008 is derived from Annex VII in accordance with Article 61 paragraph 5.

1907/2006/EC - Registration, Evaluation, Authorisation and Restriction of Chemicals and amendments.

98/24/EC - Protection of workers from the risk related to chemical agents at work. Refer to Directive for details of requirements.

1272/2008 - Classification, labelling and packaging of substances and mixtures and amendments.

Refer to the relevant EU/national regulation for details of any actions or restrictions required by the above Regulation(s)/Directive(s).

The regulatory information provided may not be comprehensive. Other regulations may apply to this product.

15.2 Chemical safety assessment

No information at the present time.

16. Other Information.

Classification according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Hazard Category</th>
<th>Hazard Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic</td>
<td>Category 3</td>
<td>H412</td>
</tr>
</tbody>
</table>

Labelling according to Regulation (EC) No 1272/2008

| Hazard Symbols: | None |
| Signal word: | None |
| Hazard Statements: | H412 Harmful to aquatic life with long lasting effects |

Precautionary Statements:

Prevention:
P273: Avoid release to the environment

Full text of R-phrases referred to under sections 2 & 3

R36/38: Irritating to eyes and skin
R38: Irritating to skin
R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R52/53: Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment

Full text of H-statements referred to under sections 2 & 3

H315: Causes skin irritation
H319: Causes serious eye irritation.
H411: Toxic to aquatic life with long lasting effects
H412: Harmful to aquatic life with long lasting effects
Training Advice
Users should be trained in good industrial hygiene practise.

Department issuing data specification sheet: Health and Safety Department

Contact
Malcolm Gibson. Tel (0)1405 768815, E-Mail: malcolm@technikraft.co.uk

This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH).

Do not mix with other chemicals.

Further Information
The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy themselves that the product is entirely suitable for his purpose.