PRODUCT SAFETY DATA SHEET

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

1.1 Product Identifier
Trade Name : T1312 – Engine Flush

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture : Engine Oil Treatment
Recommended restrictions : At this time we do not have information on restrictions on use. 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
Harmful R65
R66

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

Hazard Symbol: 

Classification: Xn Harmful

Risk Phrases: R65: Harmful: may cause lung damage if swallowed
R66: Repeated exposure may cause skin dryness or cracking

Safety Phrases: S2: Keep out of the reach of children
S24/25: Avoid contact with skin and eyes
S37: Wear suitable gloves
S62: If swallowed, do not induce vomiting, seek medical advice immediately and show this container or label.
Labelling according to Regulation (EC) No 1272/2008

Refer to Section 16.

Hazardous components which must be listed on the label
Contains Petroleum Distillate

2.3 Other hazards
None known

3. Composition/Information on Ingredients.

3.2 Mixtures

Substances presenting a health or environmental hazard according to Directive 67/548/EEC or Regulation EC1272/2008

<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>Petroleum Distillate</td>
<td>EC – 265-149-8</td>
<td>Harmful R65</td>
<td>Asp. Tox 1 H304 EUH 066</td>
<td>60-80%</td>
</tr>
<tr>
<td></td>
<td>CAS – 64742-47-8</td>
<td>Harmful R66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent Naphtha</td>
<td>EC – 265-198-5</td>
<td>Harmful R65</td>
<td>Asp. Tox. 1 H304 EUH 066</td>
<td>1-2.5%</td>
</tr>
<tr>
<td></td>
<td>CAS – 64742-94-5</td>
<td>Dangerous to the Environment R52/53</td>
<td>Aquatic Chronic 3 H412</td>
<td></td>
</tr>
</tbody>
</table>

Additional information:

4. First Aid Measures.

4.1 Description of first aid measures

Eye Contact: Flush with clean water for 15 minutes. If irritation persists, obtain medical attention.

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

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

Ingestion: Water to drink and rinse may be beneficial. Aspiration Hazard. May cause rapid absorption via lungs, resulting in injury to other body systems. Do not induce vomiting without 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

Unsuitable Extinguishing Media: Water jet.

5.2 Special hazards arising from the substance or mixture
Not classed as flammable but inherently combustible. If involved in a fire may emit noxious fumes.

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
Remove ignition sources. 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
Prevent from spreading (e.g. by dusting a ring of chemical binder). As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water. 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. Take note of emission threshold.

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

7.3 Specific end uses
To be used as an engine oil treatment

8. Exposure Controls/Personal Protection.

8.1 Control parameters
Expose limit values:

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>8hr TWA</th>
<th>15min STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Distillates</td>
<td>WEL</td>
<td>5mg/m3</td>
</tr>
</tbody>
</table>

8.2 Exposure controls
Respiratory Protection: Avoid prolonged contact with airborne mists, generated by atomising systems. Avoid breathing vapours.
Hand: PVC or rubber gloves are recommended.
Eyes: Safety eye goggles should be worn.
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 Fluid</td>
</tr>
<tr>
<td>Odour</td>
<td>Solvent</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH Neat</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial Boiling Point &amp; Boiling Range</td>
<td>173-250ºC</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;60ºC</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability</td>
<td>Flammable</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, (Water=100)</td>
<td>&gt;1</td>
</tr>
</tbody>
</table>
Relative Density: 0.830 typical @ 20°C
Solubility: Insoluble in water Soluble in many organics
Partition Coefficient (Oct/Water): Not determined
Auto Ignition Temperature: Not determined

Decomposition Temperature: Not determined
Viscosity @ 40°C: <7.0 c/st
Explosive Properties: Not determined
Oxidising Properties: Not applicable

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.

10.6 Hazardous decomposition products
Oxides of Carbon will be evolved, along with other unidentified organic compounds, some of which may be toxic. Product is stable under normal conditions.

11. Toxicological Information.

11.1 Information on toxicological effects

Eyes: Contact will cause temporary irritation and stinging.
Skin: Brief or occasional contact is unlikely to cause any significant reaction. Prolonged or repeated contact may lead to de-fatting of the skin and/or slight irritation.
Inhalation: Excessive exposure to mists caused by atomising systems may cause irritation to eyes and respiratory tract, possible inflammation of the lungs. May cause headaches and dizziness.
Ingestion: Aspiration Hazard. May cause lung damage if material gets into lungs after swallowing, breathing vapour/spray or vomiting swallowed material. Swallowing of small amounts is not likely to cause serious discomfort. If swallowed in larger quantities, may cause vomiting and diarrhoea.

12. Ecological Information.

12.1 Toxicity
Eco-toxicity: Solvent Naphtha LC50 96hrs (fish) 2 mg/l

12.2 Persistence and Degradability:
Inherently bio-degradable according to OECD guidelines.

12.3 Bio-accumulative potential
Not expected to bio-accumulate

12.4 Mobility in soil
Should not be deposited where it can effect ground or surface waters.

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>Aspiration hazard</td>
<td>Category 1</td>
<td>H304</td>
</tr>
</tbody>
</table>

Labelling according to Regulation (EC) No 1272/2008

Hazard Symbols:

Signal word: Danger

Hazard Statements: H304 May be fatal if swallowed and enters airways
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statements:

General: If medical advice is needed have product container or label at hand

P101:
P102: Keep out of the reach of children

Prevention:
P262: Do not get in eyes, on skin or on clothing
P280: Wear protective gloves

Response:
P301 + P310: IF SWALLOWS: Immediately call a POISON CENTER or doctor/physician
P331: Do NOT induce vomiting

Hazardous components which must be listed on the label
Contains Petroleum Distillate

Full text of R-phrases referred to under sections 2 & 3
R65: Harmful: may cause lung damage if swallowed
R66: Repeated exposure may cause skin dryness or cracking
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
H304 May be fatal if swallowed and enters airways
H412 Harmful to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking.

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.