SAFETY DATA SHEET
PETROL ADDITIVE

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

1.1. Product identifier

Product name: PETROL ADDITIVE
Product code: T1058

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

1.3. Details of the supplier of the safety data sheet

Company name: GardX International Ltd
Unit 7 Clovelly Business Park, Clovelly Road
Southbourne, Emsworth
Hampshire
PO10 8PE
United Kingdom
Tel: 01243 376 426
Fax: 01243 370 909
Email: info@gardx.co.uk

1.4. Emergency telephone number

Emergency tel: 01405 768 815
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Asp. Tox. 1: H304; Eye Irrit. 2: H319; Aquatic Chronic 3: H412; -: EUH066
Most important adverse effects: Repeated exposure may cause skin dryness or cracking. May be fatal if swallowed and enters airways. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:
Hazard statements: EUH066: Repeated exposure may cause skin dryness or cracking.
H304: May be fatal if swallowed and enters airways.
H319: Causes serious eye irritation.
H412: Harmful to aquatic life with long lasting effects.

Hazard pictograms: GHS07: Exclamation mark
GHS08: Health hazard

[cont...]
Signal words: Danger

Precautionary statements:
- P264: Wash hands thoroughly after handling.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/first aid.
- P331: Do NOT induce vomiting.
- P337+313: If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

* Hazardous ingredients:

HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS - REACH registered number(s): 01-2119456620-43

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>926-141-6</td>
<td>-</td>
<td>-</td>
<td>Asp. Tox. 1: H304; -- EUH066</td>
<td>&gt;70%</td>
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</tbody>
</table>

PROPN-2-OL

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>200-661-7</td>
<td>67-63-0</td>
<td>-</td>
<td>Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

HYDROCARBONS, C9, AROMATICS

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>918-668-5</td>
<td>64742-95-6</td>
<td>-</td>
<td>Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H335; Aquatic Chronic 2: H411; STOT SE 3: H336</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

POLYOLEFIN ALKYL PHENOL ALKYL AMINE

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>PROPRIETARY</td>
<td>-</td>
<td>Skin Irrit. 2: H315</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD, N,N-BIS(HYDROXYETHYL)

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>931-329-6</td>
<td>68155-07-7</td>
<td>-</td>
<td>Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

[cont...]
SAFETY DATA SHEET
PETROL ADDITIVE

Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Do not induce vomiting. Wash out mouth with water. Consult a doctor.
Inhalation: Move to fresh air in case of accidental inhalation of vapours.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: Nausea and stomach pain may occur. There may be vomiting and diarrhoea.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.
Drowsiness or mental confusion may occur.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Do not induce vomiting. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

[cont...]
Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep away from sources of ignition.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS

Workplace exposure limits:  

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>1200mg/m³</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

PROpan-2-OL

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>999 mg/m³</td>
<td>1250 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

DNEL/PNEC Values

DNEL / PNEC  No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Gloves (solvent-resistant). Breakthrough time of the glove material > 4 hours.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid
Colour: Pale yellow
Odour: Perceptible odour
Evaporation rate: Slow
Solubility in water: Miscible
Also soluble in: Most organic solvents.
Viscosity: Non-viscous
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Kinematic viscosity: <=20.5
Viscosity test method: Kinematic viscosity in 10-6 m²/s at 40°C (ISO 3104/3105)
Boiling point/range°C: 170-250
Melting point/range°C: Not applicable.
Flammability limits %: lower: No data available.
Viscosity test method: Kinematic viscosity in 10-6 m²/s at 40°C (ISO 3104/3105)
Flash point°C: 60 - 93
Part.coef. n-octanol/water: No data available.
Autoflammability°C: No data available.
Vapour pressure: 0.4 hpa
Relative density: 0.820
pH: Not applicable.

VOC g/l: No data available.

Section 10: Stability and reactivity

10.1. Reactivity
Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability
Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

10.5. Incompatible materials
Materials to avoid: Oxidising agents. Reducing agents.

10.6. Hazardous decomposition products
Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

| HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS |
|---------------------------|----------------|----------------|----------------|
| DERMAL | RBT | LD50 | >5000 mg/kg |
| ORAL | RAT | LD50 | >5000 mg/kg |
| VAPOURS | RAT | 4H LC50 | >5000 mg/kg |

[cont...]

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PETROL ADDITIVE

PROPN-2-OL

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Route</th>
<th>LO50</th>
<th>LO50 (4H)</th>
<th>LO50 (5045 mg/kg)</th>
<th>LO50 (10000 ppmV)</th>
</tr>
</thead>
</table>

HYDROCARBONS, C9, AROMATICS

| Exposure | Route | LO50 | LO50 (3160 mg/l) | LO50 (3492 mg/kg) | LO50 (6193 mg/l) |

Relevant hazards for substance:

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Route</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>OPT</td>
<td>Hazardous: calculated</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>-</td>
<td>Hazardous: calculated</td>
</tr>
</tbody>
</table>

Symptoms / routes of exposure:

- **Skin contact**: There may be irritation and redness at the site of contact.
- **Eye contact**: There may be irritation and redness.
- **Ingestion**: Nausea and stomach pain may occur. There may be vomiting and diarrhoea.
- **Inhalation**: There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

**HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS**

<table>
<thead>
<tr>
<th>Organism</th>
<th>LO50 (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALGAE</td>
<td>72H IC50</td>
</tr>
<tr>
<td>Daphnia magna</td>
<td>48H EC50</td>
</tr>
<tr>
<td>RAINBOW TROUT (Oncorhynchus mykiss)</td>
<td>96H LC50</td>
</tr>
</tbody>
</table>

**AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD, N,N-BIS(HYDROXYETHYL)**

<table>
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<tbody>
<tr>
<td>ALGAE</td>
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</tr>
<tr>
<td>DAPHNIA</td>
<td>72H ErC50</td>
</tr>
<tr>
<td>FISH</td>
<td>96H LC50</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

**Persistence and degradability**: Biodegradable.

12.3. Bioaccumulative potential

**Bioaccumulative potential**: Bioaccumulation potential.
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PETROL ADDITIVE

12.4. Mobility in soil

Mobility: Volatile. Insoluble in water. Floats on water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: * Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3:

EUH066: Repeated exposure may cause skin dryness or cracking.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.