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

1.1. Product identifier

Product name: DIESEL ADDITIVE - GARDX
Product code: T1062

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; 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. 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.
H412: Harmful to aquatic life with long lasting effects.

Hazard pictograms: GHS08: Health hazard

[cont...]
SAFETY DATA SHEET
DIESEL ADDITIVE - GARDX

Signal words: Danger

Precautionary statements:
P273: Avoid release to the environment.
P280: Wear protective gloves.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/first aid.
P331: Do NOT induce vomiting.
P405: Store locked up.
P501: Dispose of contents/container to authorised waste disposal site.

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>
</tr>
</tbody>
</table>

2-ETHYLOXOCYL NITRATE

<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>248-363-6</td>
<td>27247-96</td>
<td>-</td>
<td>Acute Tox. 4: H302+312+332; Aquatic Chronic 2: H411; -: EUH044; -: EUH066</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</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>

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.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

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 mild irritation 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. Exposure may cause coughing or wheezing.

[cont...]
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Extinguishing media: Use water spray to cool containers. Suitable extinguishing media for the surrounding fire should be used.

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. 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.

6.4. Reference to other sections

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

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 direct sunlight.

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>Respirable dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>1200mg/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: Yellow-brown

Odour: Characteristic odour

Evaporation rate: Slow

Oxidising: Not applicable.

Solubility in water: Insoluble

Also soluble in: Most organic solvents.

Viscosity: Non-viscous

Kinematic viscosity: <7.0

Viscosity test method: Kinematic viscosity in 10-6 m²/s at 40°C (ISO 3219)

Boiling point/range°C: 170-250

Flammability limits %: lower: No data available.

Flash point°C: 70

Autoflammability°C: No data available.

Relative density: 0.825

VOC g/l: No data available.

Melting point/range°C: No data available.

upper: No data available.

Part.coef. n-octanol/water: No data available.

Vapour pressure: No data available.

pH: Not applicable.

9.2. Other information

Other information: No data available.

[cont...]
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

Conditions to avoid: Heat. Hot surfaces. Sources of ignition.

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

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<tr>
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</thead>
<tbody>
<tr>
<td>DERMAL</td>
<td>RBT</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>mg/kg</td>
</tr>
<tr>
<td>ORAL</td>
<td>RAT</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>mg/kg</td>
</tr>
<tr>
<td>VAPOURS</td>
<td>RAT</td>
<td>4H LC50</td>
<td>&gt;5000</td>
<td>mg/kg</td>
</tr>
</tbody>
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2-ETHYLHEXYL NITRATE

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<tr>
<td>ORAL</td>
<td>RAT</td>
<td>LD50</td>
<td>&gt;10</td>
<td>g/kg</td>
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HYDROCARBONS, C9, AROMATICS

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<td>DERMAL</td>
<td>RBT</td>
<td>LD50</td>
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<td>mg/l</td>
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<tr>
<td>ORAL</td>
<td>RAT</td>
<td>LD50</td>
<td>3492</td>
<td>mg/kg</td>
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<tr>
<td>VAPOURS</td>
<td>RAT</td>
<td>4H LC50</td>
<td>6193</td>
<td>mg/l</td>
</tr>
</tbody>
</table>

Relevant hazards for substance:

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Hazard</td>
<td>Route</td>
<td>Basis</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>-</td>
<td>Hazardous: calculated</td>
<td></td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET**
**DIESEL ADDITIVE - GARD**

**Symptoms / routes of exposure**

**Skin contact:** There may be mild irritation 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. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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**Section 12: Ecological information**

12.1. **Toxicity**

**Hazardous ingredients:**

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

<table>
<thead>
<tr>
<th>Hazard</th>
<th>ALGAE</th>
<th>Daphnia magna</th>
<th>RAINBOW TROUT (Onchorhynchus mykiss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72H IC50</td>
<td>20 mg/l</td>
<td>&gt;250 mg/l</td>
<td>&gt;1000 mg/l</td>
</tr>
</tbody>
</table>

**2-ETHYLHEXYL NITRATE**

<table>
<thead>
<tr>
<th>Hazard</th>
<th>ALGAE</th>
<th>Daphnia magna</th>
<th>FISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>72H ErC50</td>
<td>3.22 mg/l</td>
<td>&gt;12.6 mg/l</td>
<td>2.0 mg/l</td>
</tr>
</tbody>
</table>

12.2. **Persistence and degradability**

**Persistence and degradability:** Biodegradable.

12.3. **Bioaccumulative potential**

**Bioaccumulative potential:** Bioaccumulation potential.

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.

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**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.

[cont...]
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:

EUH044: Risk of explosion if heated under confinement.
EUH066: Repeated exposure may cause skin dryness or cracking.
H226: Flammable liquid and vapour.
H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
H304: May be fatal if swallowed and enters airways.
H335: May cause respiratory irritation.
H36: 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.