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

1.1. Product identifier
Product form : Mixture
Product name : Injector Cleaner for Diesel Engines
Product code : W51668

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Use of the substance/mixture : Diesel fuel additive

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Wynn's Belgium
Industriepark-West 46
9100 Sint-Niklaas - Belgium
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.be

1.4. Emergency telephone number
Emergency number : BIG: +32(0)14/58.45.45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
STOT RE 1 : H372
Asp. Tox. 1 : H304
Aquatic Chronic 3 : H412
Full text of H-statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Xn; R65
Xn; R48/20
R66
R52/53
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP) :
Signal word (CLP) : Danger
Hazardous ingredients : hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways
H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects
EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking
Precautionary statements (CLP) : P102 - Keep out of reach of children
P405 - Store locked up
P260 - Do not breathe vapours
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor
2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% w</th>
<th>Classification according to Directive 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</td>
<td>(EC no) 919-164-8 (REACH-no) 01-2119473977-17</td>
<td>&gt;= 90</td>
<td>Xn; R48/20 Xn; R65 R66</td>
</tr>
<tr>
<td>2-Ethylhexyl nitrate</td>
<td>(CAS No) 27247-96-7 (EC no) 248-363-6 (REACH-no) 01-2119539586-27</td>
<td>5 - 10</td>
<td>Xn; R20/21/22 R44 N; R51/53 R66</td>
</tr>
<tr>
<td>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</td>
<td>(EC no) 918-811-1 (REACH-no) 01-2119463583-34</td>
<td>0,1 - 1</td>
<td>N; R51/53 Xn; R65 R66 R67</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethylhexyl nitrate</td>
<td>(CAS No) 27247-96-7 (EC no) 248-363-6 (REACH-no) 01-2119539586-27</td>
<td>(C &gt;= 10) R44</td>
<td></td>
</tr>
<tr>
<td>hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</td>
<td>(EC no) 919-164-8 (REACH-no) 01-2119473977-17</td>
<td>&gt;= 90</td>
<td>STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>2-Ethylhexyl nitrate</td>
<td>(CAS No) 27247-96-7 (EC no) 248-363-6 (REACH-no) 01-2119539586-27</td>
<td>5 - 10</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</td>
<td>(EC no) 918-811-1 (REACH-no) 01-2119463583-34</td>
<td>0,1 - 1</td>
<td>STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures


First-aid measures after inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion of large quantities: immediately to hospital.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after skin contact: Repeated exposure may cause skin dryness or cracking.
May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media: Water spray. AFFF foam. ABC-powder.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Combustible liquid. This material can accumulate static charge by flow or agitation and can be ignited by static discharge.
Explosion hazard: No direct explosion hazard.

5.3. Advice for firefighters
Firefighting instructions: Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
General measures: No open flames. No smoking. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel
Protective equipment: Wear suitable protective clothing and gloves. Safety glasses.
Emergency procedures: Mark the danger area. Seal off low-lying areas. Large spills/in enclosed spaces: compressed air apparatus. Wash contaminated clothes.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment: Contain leaking substance, pump over in suitable containers.
Methods for cleaning up: Take up liquid spill into inert absorbent material. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling: Meets the legal requirements. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin. Presents no particular risk when handled in accordance with good occupational hygiene practice.
Hygiene measures: Use good personal hygiene practices. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Meets the legal requirements. Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place.
Storage temperature: < 45 °C
Storage area: Meets the legal requirements. Keep container tightly closed in a cool, well-ventilated place. Ventilation along the floor.
Special rules on packaging: Keep only in original container. correctly labelled.

7.3. Specific end use(s)
No additional information available
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

**hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

<table>
<thead>
<tr>
<th>Country</th>
<th>ACGIH TWA (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italy - Portugal - USA</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

ACGIH

8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures.

Personal protective equipment: Gloves. Safety glasses.

Hand protection: Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer.

Other information: Breakthrough time: >30'. Thickness of the glove material >0,1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear.</td>
</tr>
<tr>
<td>Colour</td>
<td>Yellow.</td>
</tr>
<tr>
<td>Odour</td>
<td>Petroleum-like odour.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td></td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Refraction index</td>
<td>1,446</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>62 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density @20°C</td>
<td>811 kg/m³</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic @40°C</td>
<td>1,23 mm²/s</td>
</tr>
<tr>
<td>Viscosity, dynamic @40°C</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Viscosity Index</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

VOC content: 97,82 %

Additional information: The physical and chemical data in this section are typical values for this product and are not intended as product specifications.
**SECTION 10: Stability and reactivity**

10.1. **Reactivity**  
No additional information available

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

10.3. **Possibility of hazardous reactions**  
No additional information available

10.4. **Conditions to avoid**  
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from strong acids and strong oxidizers.

10.5. **Incompatible materials**  
No additional information available

10.6. **Hazardous decomposition products**  
On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

**SECTION 11: Toxicological information**

11.1. **Information on toxicological effects**

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>2-Ethylhexyl nitrate (27247-96-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE CLP (oral)</td>
<td>500,000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (dermal)</td>
<td>1100,000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (dust,mist)</td>
<td>1,500 mg/l/4h</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Causes damage to organs (central nervous system) through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
</tbody>
</table>

11.2. **Ecological information**

12.1. **Toxicity**

- Ecology - general: May cause long lasting harmful effects to aquatic life.
- Ecology - water: Harmful to aquatic life with long lasting effects.

12.2. **Persistence and degradability**

- 2-Ethylhexyl nitrate (27247-96-7): Not readily biodegradable in water.

12.3. **Bioaccumulative potential**

No additional information available

12.4. **Mobility in soil**

No additional information available

12.5. **Results of PBT and vPvB assessment**

- hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
  This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
  This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. **Other adverse effects**

No additional information available
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Remove to an authorized waste treatment plant.

SECTION 14: Transport information

14.1. UN number
Not regulated for transport

14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
Not applicable

14.4. Packing group
Not applicable

14.5. Environmental hazards
Other information: No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport
No additional information available

14.6.2. Transport by sea
No additional information available

14.6.3. Air transport
No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no substances with Annex XVII restrictions
Injector Cleaner for Diesel Engines is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
VOC content: 97,82 %

15.1.2. National regulations
Water hazard class (WGK): 2 - hazard to waters

15.2. Chemical safety assessment
No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

- Acute Tox. 4 (Dermal)
- Acute Tox. 4 (Inhalation:dust,mist)
- Acute Tox. 4 (Oral)
- Aquatic Chronic 2
- Aquatic Chronic 3
- Asp. Tox. 1

Acute toxicity (dermal), Category 4
Acute toxicity (inhalation:dust,mist) Category 4
Acute toxicity (oral), Category 4
Hazardous to the aquatic environment — Chronic Hazard, Category 2
Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aspiration hazard, Category 1
Injector Cleaner for Diesel Engines
Safety Data Sheet
according to Regulation (EC) No. 453/2010

STOT RE 1
Specific target organ toxicity — Repeated exposure, Category 1

STOT SE 3
Specific target organ toxicity — Single exposure, Category 3, Narcosis

H302
Harmful if swallowed
H304
May be fatal if swallowed and enters airways
H312
Harmful in contact with skin
H332
Harmful if inhaled
H336
May cause drowsiness or dizziness
H372
Causes damage to organs through prolonged or repeated exposure

H411
Toxic to aquatic life with long lasting effects
H412
Harmful to aquatic life with long lasting effects
R20/21/22
Harmful by inhalation, in contact with skin and if swallowed
R44
Risk of explosion if heated under confinement
R48/20
Harmful: danger of serious damage to health by prolonged exposure through inhalation
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
R65
Harmful: may cause lung damage if swallowed
R66
Repeated exposure may cause skin dryness or cracking
R67
Vapours may cause drowsiness and dizziness
N
Dangerous for the environment
Xn
Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.