Diesel Clean 3
Safety Data Sheet
according to Regulation (EC) No. 453/2010

MSDS Version: E03.00  Date of issue: 15/01/2015  Blend Version: 3

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

1.1. Product identifier
Product form : Mixture
Product name : Diesel Clean 3
Product code : W12292

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]
- Flam. Liq. 3 : H226
- Eye Irrit. 2 : H319
- 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
- R10
- 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) : GHS02, GHS07, GHS08

Signal word (CLP) : Danger
Hazardous ingredients : hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Hazard statements (CLP) : H226 - Flammable liquid and vapour
- H304 - May be fatal if swallowed and enters airways
- H319 - Causes serious eye irritation
- H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure
Diesel Clean 3
Safety Data Sheet
according to Regulation (EC) No. 453/2010

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
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P260 - Do not breathe vapours
P280 - Wear eye protection
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor
P331 - Do NOT induce vomiting
P273 - Avoid release to the environment

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>75 - 90</td>
<td>Xn; R48/20 Xn; R65 R66</td>
</tr>
<tr>
<td>4-methylpentan-2-ol</td>
<td>(CAS No) 108-11-2 (EC no) 203-551-7 (EC index no) 603-008-00-8 (REACH-no) 01-2119473979-13</td>
<td>10 - 25</td>
<td>R10 Xi; R36/37/38</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>

Name | Product identifier | Specific concentration limits |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4-methylpentan-2-ol</td>
<td>(CAS No) 108-11-2 (EC no) 203-551-7 (EC index no) 603-008-00-8 (REACH-no) 01-2119473979-13</td>
<td>(C &gt;= 25) Xi; R37</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>(C &gt;= 10) R44</td>
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</tbody>
</table>

Name | Product identifier | Specific concentration limits |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></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>75 - 90 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>4-methylpentan-2-ol</td>
<td>(CAS No) 108-11-2 (EC no) 203-551-7 (EC index no) 603-008-00-8 (REACH-no) 01-2119473979-13</td>
<td>10 - 25 Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335</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 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 2, H412</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 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

Name | Product identifier | Specific concentration limits |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>4-methylpentan-2-ol</td>
<td>(CAS No) 108-11-2 (EC no) 203-551-7 (EC index no) 603-008-00-8 (REACH-no) 01-2119473979-13</td>
<td>(C &gt;= 25) STOT SE 3, H335</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general:

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

First-aid measures after skin contact:
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. 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. 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.

Symptoms/injuries after ingestion:
Harmful if swallowed. Headache. Abdominal pain. Risk of aspiration pneumonia. 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:
Flammable liquid and vapour. 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:
Safety glasses. Face-shield. Gloves. protective clothing.

Emergency procedures:
Mark the danger area. Seal off low-lying areas. Large spills/in enclosed spaces: compressed air apparatus. Take off contaminated clothing and wash before reuse.

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:
Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. 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>Limit value (ppm)</th>
<th>Limit value (mg/m³)</th>
<th>Short time value (mg/m³)</th>
<th>Short time value (ppm)</th>
<th>TRGS 900 Occupational exposure limit value (mg/m³)</th>
<th>TRGS 900 Occupational exposure limit value (ppm)</th>
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<tbody>
<tr>
<td>Italy - Portugal - USA</td>
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<td>Remark (BE)</td>
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<td>WEL STEL (ppm)</td>
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</tr>
</tbody>
</table>

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. 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>
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<td>Appearance</td>
<td>Clear</td>
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<td>Colour</td>
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<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
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<tr>
<td>pH</td>
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<td>(butylacetate=1)</td>
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<td>Freezing point</td>
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<td>Boiling point</td>
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<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
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<td>Flammability (solid, gas)</td>
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<td>Vapour pressure</td>
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<td>Relative vapour density at 20 °C</td>
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<tr>
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<td>Solubility</td>
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<td>Log Kow</td>
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<td>Viscosity, kinematic @40°C</td>
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<td>Viscosity, dynamic @40°C</td>
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<tr>
<td>Viscosity</td>
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<td>Explosive properties</td>
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<td>Oxidising properties</td>
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</tr>
<tr>
<td>Explosive limits</td>
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</tr>
</tbody>
</table>

#### 9.2. Other information

- **VOC content:** 98,05 %
- **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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful: may cause lung damage if swallowed

2-Ethylhexyl nitrate (27247-96-7)
ATE CLP (oral) 500,000 mg/kg bodyweight
ATE CLP (dermal) 1100,000 mg/kg bodyweight
ATE CLP (dust,mist) 1,500 mg/l/4h

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Causes damage to organs (central nervous system) through prolonged or repeated exposure.
Aspiration hazard : May be fatal if swallowed and enters airways.

SECTION 12: 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

4-methylpentan-2-ol (108-11-2)
Persistence and degradability : Readily biodegradable in water. Biodegradable in the soil.

2-Ethylhexyl nitrate (27247-96-7)
Persistence and degradability : 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

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.
Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (methyl isobutyl carbinol), 3, III, (D/E)
14.3. Transport hazard class(es)
Class (ADR) : 3
Danger labels (ADR) : 3

14.4. Packing group
Packing group (ADR) : III

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

14.6. Special precautions for user
14.6.1. Overland transport
Hazard identification number (Kemler No.) : 30
Classification code (ADR) : F1
Orange plates : 30

Special provisions (ADR) : 274, 601, 640E
Transport category (ADR) : 3
Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1
EAC code : •3YE

14.6.2. Transport by sea
EmS-No. (1) : F-E, S-E

14.6.3. Air transport
Instruction "cargo" (ICAO) : 366
Instruction "passenger" (ICAO) : 355
Instruction "passenger" - Limited quantities (ICAO) : Y344

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
Diesel Clean 3 is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
VOC content : 98,05 %

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 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist), Category 4 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liqu. 3 | Flammable liquids, Category 3 |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause dryness 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 |
| R10 | Flammable |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed |
| R36/37/38 | Irritating to eyes, respiratory system and skin |
| 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 |
| Xi | Irritant |
| 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.