Diesel Turbo Cleaner
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

MSDS Version: E05.01 Date of issue: 19/02/2018 Blend Version: 5

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

1.1. Product identifier
Product form : Mixture
Product name : Diesel Turbo Cleaner
Product code : W31563

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
Function or use category : Lubricants and additives

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.com

1.4. Emergency telephone number
Emergency number : BIG: +32(0)14/58.45.45 (NL FR EN DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Asp. Tox. 1 H304
Aquatic Chronic 3 H412

Full text of H statements : 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]
Signal word (CLP) : Danger
Hazard pictograms (CLP) : GHS08

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.
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. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% w</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</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>STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, 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>1 - 2,5</td>
<td>STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>2-ethylhexan-1-ol substance with a Community workplace exposure limit</td>
<td>(CAS-No.) 104-76-7 (EC-No.) 203-234-3 (REACH-no) 01-2119487289-20</td>
<td>0,1 - 1</td>
<td>Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index-No.) 601-052-00-2 (REACH-no) 01-2119561346-37</td>
<td>0,1 - 1</td>
<td>Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

Full text of 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/doctor 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: If swallowed, rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Ingestion of large quantities: immediately to hospital.

4.2. Most important symptoms and effects, both acute and delayed
No additional information available

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. Gas/vapour spreads at floor level: ignition hazard. Take precautionary measures against static discharge.

Explosion hazard: Product is not explosive.

5.3. Advice for firefighters
Firefighting instructions: Prevent fire fighting water from entering the 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: Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel
Protective equipment: Wear suitable gloves and eye/face protection. Protective clothing.
Emergency procedures: Mark the danger area. Large spills/in enclosed spaces: compressed air apparatus. Prevent flow to low areas. Take off contaminated clothing.

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: Collect spillage. 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. Clean preferably with a detergent - Avoid the use of solvents.

6.4. Reference to other sections
For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Meet the legal requirements. Use good personal hygiene practices. Repeated exposure may cause skin dryness or cracking. Presents no particular risk when handled in accordance with good occupational hygiene practice.
Hygiene measures: Use good personal hygiene practices. IF ON SKIN: Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Does not require any specific or particular technical measures.
Storage conditions: Meet the legal requirements. Protect from sunlight. Store in a well-ventilated place.
Storage area: Meet the legal requirements. Store in a well-ventilated place. Ventilation along the floor.
Special rules on packaging: Keep only in original container. Meet the legal requirements. Labelling according to.

7.3. Specific end use(s)
See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit value (mg/m³)</th>
<th>Limit value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</td>
<td>533 mg/m³</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Belgium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belgium</td>
<td>Limit value (mg/m³)</td>
<td>200 mg/m³</td>
</tr>
<tr>
<td>Belgium</td>
<td>Limit value (ppm)</td>
<td></td>
</tr>
<tr>
<td>Italy - Portugal - USA</td>
<td>ACGIH TWA (ppm)</td>
<td>100 ppm</td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belgium</td>
<td>Limit value (mg/m³)</td>
<td></td>
</tr>
<tr>
<td>2-ethylhexan-1-ol (104-76-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU</td>
<td>IOELV TWA (mg/m³)</td>
<td>5,4 mg/m³</td>
</tr>
<tr>
<td>EU</td>
<td>IOELV TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Germany</td>
<td>TRGS 900 Occupational exposure limit value (mg/m³)</td>
<td>110 mg/m³</td>
</tr>
<tr>
<td>Germany</td>
<td>TRGS 900 Occupational exposure limit value (ppm)</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Naphthalene (91-20-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU</td>
<td>IOELV TWA (mg/m³)</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td>EU</td>
<td>IOELV TWA (ppm)</td>
<td>10 ppm</td>
</tr>
</tbody>
</table>
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Safety Data Sheet
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Naphthalene (91-20-3)

<table>
<thead>
<tr>
<th>Limit value (mg/m³)</th>
<th>Limit value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>Belgium</td>
</tr>
<tr>
<td></td>
<td>Belgium</td>
</tr>
<tr>
<td>Belgium</td>
<td>Belgium</td>
</tr>
<tr>
<td>Belgium</td>
<td>Belgium</td>
</tr>
</tbody>
</table>

Limit value (mg/m³) 53 mg/m³
Limit value (ppm) 10 ppm

Belgium
Limit value (mg/m³) 80 mg/m³
Limit value (ppm) 15 ppm

Belgium
Remark (BE) D

Hydrocarbons, C10, aromatics, <1% naphthalene

DNEL/DMEL (Workers)
Long-term - systemic effects, dermal 12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 151 mg/m³

DNEL/DMEL (General population)
Long-term - systemic effects, oral 7,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 32 mg/m³
Long-term - systemic effects, dermal 7,5 mg/kg bodyweight/day

2-ethylhexan-1-ol (104-76-7)

DNEL/DMEL (Workers)
Acute - local effects, inhalation 53,2 mg/m³
Long-term - systemic effects, dermal 23 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 12,8 mg/m³
Long-term - local effects, inhalation 53,2 mg/m³

DNEL/DMEL (General population)
Acute - local effects, inhalation 26,6 mg/m³
Long-term - systemic effects, oral 1,1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 2,3 mg/m³
Long-term - systemic effects, dermal 11,4 mg/kg bodyweight/day
Long-term - local effects, inhalation 26,6 mg/m³

DNEL/DMEL (General population)
Acute - local effects, inhalation 26,6 mg/m³
Long-term - systemic effects, oral 1,1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 2,3 mg/m³
Long-term - systemic effects, dermal 11,4 mg/kg bodyweight/day
Long-term - local effects, inhalation 26,6 mg/m³

PNEC (Water)
- PNEC aqua (freshwater) 0,017 mg/l
- PNEC aqua (marine water) 0,0017 mg/l
- PNEC aqua (intermittent, freshwater) 0,17 mg/l
- PNEC (Sediment)
- PNEC sediment (freshwater) 0,284 mg/kg dwt
- PNEC sediment (marine water) 0,0284 mg/kg dwt
- PNEC (Soil)
- PNEC soil 0,047 mg/kg dwt
- PNEC (STP)
- PNEC sewage treatment plant 10 mg/l

Naphthalene (91-20-3)

DNEL/DMEL (Workers)
Long-term - systemic effects, dermal 3,57 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 25 mg/m³
Long-term - local effects, inhalation 25 mg/m³

DNEL/DMEL (General population)
Long-term - systemic effects, dermal 3,57 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 25 mg/m³
Long-term - local effects, inhalation 25 mg/m³

PNEC (STP)
PNEC sewage treatment plant 2,9 mg/l

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>Colour</td>
<td>brown.</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic.</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>1,447</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>64 °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>801,5 kg/m³</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</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>1,26 mm²/s</td>
</tr>
<tr>
<td>Viscosity, dynamic @40°C</td>
<td>No data available</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>
<tr>
<td>VOC content</td>
<td>98,07 %</td>
</tr>
</tbody>
</table>

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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from strong acids and strong oxidizers.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
No additional information available
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Harmful: may cause lung damage if swallowed

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

LD50 oral rat > 15000 mg/kg
LD50 dermal rabbit > 3400 mg/kg
LC50 inhalation rat (mg/l) > 13,1 mg/l/4h

**Hydrocarbons, C10, aromatics, <1% naphthalene**

LD50 oral rat 6318 mg/kg bodyweight Crl:CDBR
LD50 dermal rabbit > 2000 mg/kg bodyweight New Zealand White
LC50 inhalation rat (mg/l) > 4,688 mg/l/4h Sprague-Dawley
ATE CLP (oral) 6318 mg/kg bodyweight

2-ethylhexan-1-ol (104-76-7)

LD50 oral rat 3290 mg/kg
LD50 dermal rabbit > 3000 mg/kg
LC50 inhalation rat (mg/l) 1,1 mg/l/4h
ATE CLP (oral) 3290 mg/kg bodyweight
ATE CLP (dermal) 3000 mg/kg bodyweight
ATE CLP (vapours) 1,1 mg/l/4h
ATE CLP (dust,mist) 1,1 mg/l/4h

**Naphthalene (91-20-3)**

LD50 oral rat > 2000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rat > 2500 mg/kg bodyweight Sherman
ATE CLP (oral) 500 mg/kg bodyweight

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT-single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: This product contains hazardous components for the aquatic environment.
Ecology - water: Harmful to aquatic life with long lasting effects.

**Hydrocarbons, C10, aromatics, <1% naphthalene**

LC50 fish 1 96h 2 - 5 mg/l Oncorhynchus mykiss
EC50 Daphnia 1 48h 10 mg/l Daphnia magna
EC50 other aquatic organisms 1 72h 1 - 3 mg/l Pseudokirchneriella subcapitata

2-ethylhexan-1-ol (104-76-7)

LC50 fish 1 96h 28,2 mg/l pimephales promelas
EC50 Daphnia 1 48h 39 mg/l daphnia magna
EC50 other aquatic organisms 1 72h 11,5 mg/l algae (desmodesmus subspicatus)

**Naphthalene (91-20-3)**

LC50 fish 1 96h 1,6 mg/l Oncorhynchus mykiss
EC50 Daphnia 1 48h 2,16 mg/l Daphnia magna

12.2. Persistence and degradability

2-ethylhexan-1-ol (104-76-7)

Persistence and degradability: Readily biodegradable.
12.3. Bioaccumulative potential

2-ethylhexan-1-ol (104-76-7)
Bioaccumulative potential: No bioaccumulation.

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

- **2-ethylhexan-1-ol (104-76-7)**
  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

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.

European List of Waste (LoW) code:
- 14 06 03* - other solvents and solvent mixtures
- 15 01 10* - packaging containing residues of or contaminated by dangerous substances

**SECTION 14: Transport information**

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

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 REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
VOC content: 98,07 %

12/03/2018
15.1.2. National regulations

Water hazard class (WGK): 2 - significant hazard to waters

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist) (Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral) (Acute toxicity (oral), Category 4
Aquatic Acute 1 (Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1 (Hazardous to the aquatic environment — Chronic Hazard, Category 1
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
Carc. 2 (Carcinogenicity, Category 2
Eye Irrit. 2 (Serious eye damage/eye irritation, Category 2
Skin Irrit. 2 (Skin corrosion/irritation, Category 2
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
H302 (Harmful if swallowed.
H304 (May be fatal if swallowed and enters airways.
H315 (Causes skin irritation.
H319 (Causes serious eye irritation.
H332 (Harmful if inhaled.
H335 (May cause respiratory irritation.
H336 (May cause drowsiness or dizziness.
H351 (Suspected of causing cancer.
H372 (Causes damage to organs through prolonged or repeated exposure.
H400 (Very toxic to aquatic life.
H410 (Very toxic to aquatic life with long lasting effects.
H411 (Toxic to aquatic life with long lasting effects.
H412 (Harmful to aquatic life with long lasting effects.
EUH066 (Repeated exposure may cause skin dryness or cracking.

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.