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

1.1. Product identifier

Product form : Mixture
Product name : Fuel System Cleaner
Product code : W61354

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 : Petrol 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. 2 H225
Eye Irrit. 2 H319
STOT SE 3 H336
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]

F; R11
Xn; R65
Xn; R48/20
R66
R67
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) : H225 - Highly flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H319 - Causes serious eye irritation
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>
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</thead>
<tbody>
<tr>
<td>hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</td>
<td>(EC no) 919-164-8</td>
<td>50 - 75</td>
<td>Xn; R46/20, Xn; R65, R66</td>
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<tr>
<td>Propan-2-ol</td>
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<td>10 - 25</td>
<td>F; R11, Xl; R36, R67</td>
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<td>(EC no) 200-661-7</td>
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<td>(REACH-no) 01-2119457558-25</td>
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<tr>
<td>4-methylpentan-2-ol</td>
<td>(CAS no) 108-11-2</td>
<td>2,5 - 5</td>
<td>R10</td>
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<td>(EC no) 203-551-7</td>
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<td></td>
<td>(REACH-no) 01-2119473979-13</td>
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<td>1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia</td>
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<td>Xi; R38</td>
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<td>R52/53</td>
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<td>(EC no) polymer</td>
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<tr>
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<td>(EC no) 265-233-4</td>
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<td></td>
<td>(REACH-no) 01-2119475608-26</td>
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<tr>
<td>Solvent naphtha (petroleum), heavy aromatic</td>
<td>(CAS No) 64742-94-5</td>
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<td>Xn; R65</td>
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<tr>
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<td>(EC no) 265-198-5</td>
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<td>Naphthalene</td>
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<td>Carc.Cat.3, R40, Xn; R22, N; R50/53</td>
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Specific concentration limits

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<th>Specific concentration limits</th>
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<tbody>
<tr>
<td>4-methylpentan-2-ol</td>
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<td>(C &gt;= 25) Xi; R37</td>
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<table>
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<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% w</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
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</thead>
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<tr>
<td>hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</td>
<td>(EC no) 919-164-8</td>
<td>50 - 75</td>
<td>STOT RE 1, H372</td>
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<tr>
<td></td>
<td>(REACH-no) 01-2119473977-17</td>
<td></td>
<td>Asp. Tox. 1, H304, Aquatic Chronic 3, H412</td>
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<td></td>
<td>(EC no) 200-661-7</td>
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<td>(REACH-no) 01-2119457558-25</td>
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</table>
**Fuel System Cleaner**

**Safety Data Sheet**

according to Regulation (EC) No. 453/2010

### Name | Product identifier | % w | Classification according to Regulation (EC) No. 1272/2008 [CLP]
---|---|---|---
4-methylpentan-2-ol | (CAS No) 108-11-2 (EC no) 203-551-7 (REACH-no) 01-2119473979-13 | 2,5 - 5 | Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335

1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia | (CAS No) 337367-30-3 | 2,5 - 5 | Skin Irrit. 2, H315 Aquatic Chronic 3, H412

Polyether | (CAS No) 173140-85-7 (EC no) polymer | 2,5 - 5 | Skin Irrit. 2, H315

Paraffins, normal C5-20 | (CAS No) 64771-72-8 (EC no) 265-233-4 (REACH-no) 01-2119475608-26 | 1 - 2,5 | Asp. Tox. 1, H304

Solvent naphtha (petroleum), heavy aromatic | (CAS No) 64742-94-5 (EC no) 265-198-5 (EC index no) 649-424-00-3 (REACH-no) 01-2119475608-26 | 1 - 2,5 | STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Naphthalene | (CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2 (REACH-no) 01-2119561346-37 | 0,1 - 1 | Carc. 2, H351 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### Name | Product identifier | Specific concentration limits
---|---|---
4-methylpentan-2-ol | (CAS No) 108-11-2 (EC no) 203-551-7 (EC index no) 603-008-00-8 (REACH-no) 01-2119473979-13 | (C >= 25) STOT SE 3, H335

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 general**


**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**

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Wash contaminated clothing before reuse. 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 inhalation**

May cause drowsiness or dizziness.

**Symptoms/injuries after skin contact**

Skin corrosion/irritation. Repeated exposure may cause skin dryness or cracking.

**Symptoms/injuries after eye contact**

Causes serious eye irritation.

**Symptoms/injuries after ingestion**

Abdominal pain. May be fatal if swallowed and enters airways. Risk of aspiration pneumonia.

### 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. Alcohol resistant foam. ABC-powder.

#### 5.2. Special hazards arising from the substance or mixture

**Fire hazard**

Highly 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: Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel
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: 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%)
Italy - Portugal - USA
ACGIH TWA (ppm)

ACGIH

Propan-2-ol (67-63-0)
Belgium Limit value (mg/m³) 500 mg/m³
Belgium Limit value (ppm) 200 ppm
Belgium Short time value (mg/m³) 1000 mg/m³
Belgium Short time value (ppm) 400 ppm

4-methylpentan-2-ol (108-11-2)
Belgium Limit value (mg/m³) 106 mg/m³
Belgium Limit value (ppm) 25 ppm
Belgium Short time value (mg/m³) 169 mg/m³
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

Physical state: Liquid

Appearance: Clear.

Colour: Colourless.

Odour: Alcohol.

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

refractive index: 1,435

Melting point: No data available

Freezing point: No data available

Boiling point: > 75 °C

Flash point: 17 °C

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): No data available
Fuel System Cleaner
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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Vapour pressure</td>
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<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
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<tr>
<td>Relative density</td>
<td>No data available</td>
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<tr>
<td>Density @20°C</td>
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<tr>
<td>Explosive limits</td>
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</table>

9.2. Other information
VOC content                             : 93.4 %
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

Naphthalene (91-20-3)
ATE CLP (oral)                           : 500,000 mg/kg bodyweight
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) : May cause drowsiness or dizziness.
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.
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Ecology - water: Harmful to aquatic life with long lasting effects.

**Naphthalene (91-20-3)**
LC50 fish 1 6,08 mg/l 96h

12.2. **Persistence and degradability**

**Propan-2-ol (67-63-0)**
Persistence and degradability: Readily biodegradable in water. Biodegradable.

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

12.3. **Bioaccumulative potential**

**Propan-2-ol (67-63-0)**
Log Kow: < 4

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.

14.3. **Transport hazard class(es)**
Class (ADR): 3
Danger labels (ADR): 3

14.4. **Packing group**
Packing group (ADR): II

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.): 33
Classification code (ADR): F1
Orange plates: 33, 1993
Special provisions (ADR): 274, 601, 640D
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Transport category (ADR) : 2
Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 1l
Exempted quantities (ADR) : E2
EAC code : •3YE

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

14.6.3. Air transport
Instruction "cargo" (ICAO) : 364
Instruction "passenger" (ICAO) : 353
Instruction "passenger" - Limited quantities (ICAO) : Y341

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
Fuel System Cleaner is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
VOC content : 93,4 %

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 (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
Flam. Liq. 2  Flammable liquids, Category 2
Flam. Liq. 3  Flammable liquids, Category 3
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, Narcosis
STOT SE 3  Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225  Highly flammable liquid and vapour
H226  Flammable liquid and vapour
Fuel System Cleaner
Safety Data Sheet
according to Regulation (EC) No. 453/2010

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.