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

1.1. Product identifier
Product form: Mixture
Product name: Fuel Biocide
Product code: W10601

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: Fuel Additive.
Only to be used as preservative against the formation of micro-organisms in fuels.
Notification number (Belgium): NOTIF296

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
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Dermal) H312
Acute Tox. 4 (Inhalation:dust,mist) H332
Skin Corr. 1C H314
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; R21/22
Xn; R65
Xn; R48/20
C; R34
R66

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: 3,3’-methylenebis[5-methyl-oxazolidine], 2-butoxyethanol, hydrocarbons, C10-
C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hazard statements (CLP): H226 - Flammable liquid and vapour
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H304 - May be fatal if swallowed and enters airways
H314 - Causes severe skin burns and eye damage
H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP): P102 - Keep out of reach of children
P405 - Store locked up
P260 - Do not breathe vapours
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor
P331 - Do NOT induce vomiting
P280 - Wear protective gloves, protective clothing, eye protection
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>50 - 75</td>
<td>Xn; R48/20 Xn; R65 R66</td>
</tr>
<tr>
<td>3,3'-methylenebis[5-methyl-oxazolidine]</td>
<td>(CAS No) 66204-44-2 (EC no) 266-235-8</td>
<td>24</td>
<td>Xn; R21/22 C; R34 R52</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>(CAS No) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0 (REACH-no) 01-2119475108-36</td>
<td>10 - 25</td>
<td>Xn; R20/21/22 Xi; R36/38</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>3,3'-methylenebis[5-methyl-oxazolidine]</td>
<td>(CAS No) 66204-44-2 (EC no) 266-235-8</td>
<td>(5 &lt;= C &lt; 10) Xi;R36/38 (10 &lt;= C &lt; 25) C;R34 (C &gt;= 25) C;R21/22-34-52</td>
<td></td>
</tr>
</tbody>
</table>

<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>50 - 75</td>
<td>STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>3,3'-methylenebis[5-methyl-oxazolidine]</td>
<td>(CAS No) 66204-44-2 (EC no) 266-235-8</td>
<td>24</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1C, H314</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>(CAS No) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0 (REACH-no) 01-2119475108-36</td>
<td>10 - 25</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319</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. Wash contaminated clothing before reuse.

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. Contact ophthalmologist immediately.

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 respiratory irritation. Risk of lung oedema.

Symptoms/injuries after skin contact: Causes severe skin burns and eye damage. skin corrosion/irritation. Repeated or prolonged skin contact may cause irritation progressing to a burn.


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: Wear suitable protective clothing and gloves. Face-shield.

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. 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: < 40 °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)
Use biocides safely. Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | ACGIH TWA (ppm) | 100 ppm
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Italy - Portugal - USA</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

2-butoxyethanol (111-76-2)

<table>
<thead>
<tr>
<th>Country</th>
<th>Limit value (mg/m³)</th>
<th>Limit value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>98 mg/m³</td>
<td>20 ppm</td>
</tr>
<tr>
<td>EU</td>
<td>246 mg/m³</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Belgium</td>
<td>98 mg/m³</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Belgium</td>
<td>246 mg/m³</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Belgium</td>
<td>Remark (BE)</td>
<td>D</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Grenswaarde TGG 8H (mg/m³)</td>
<td>100 mg/m³</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Grenswaarde TGG 8H (ppm)</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Grenswaarde TGG 15MIN (mg/m³)</td>
<td>246 mg/m³</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Grenswaarde TGG 15MIN (ppm)</td>
<td>50 ppm</td>
</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. Corrosionproof clothing.

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 >0,15 mm.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state          : Liquid
Appearance             : Clear.
Colour                 : transparent.
Odour                  : characteristic.
Odour threshold        : No data available
pH                     : 
Relative evaporation rate (butylacetate=1) : No data available
refraction index       : 1,447
Melting point          : No data available
Freezing point         : No data available
Boiling point          : No data available
Flash point            : 60 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure        : No data available
Relative vapour density at 20 °C : No data available
Relative density       : No data available
Density @20°C           : 864 kg/m³
Solubility             : No data available
Log Pow                : No data available
Log Kow                : No data available
Viscosity, kinematic @40°C : 1,73 mm²/s
Viscosity, dynamic @40°C : No data available
Viscosity              : 
Viscosity Index        : 
Explosive properties   : No data available
Oxidising properties  : No data available
Explosive limits       : No data available

9.2. Other information

VOC content             : 76 %
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

**Fuel Biocide**

- **ATE CLP (oral)**: 1282,051 mg/kg bodyweight
- **ATE CLP (dermal)**: 1100,000 mg/kg bodyweight
- **ATE CLP (dust,mist)**: 3,846 mg/l/4h

**3,3’-methylenebis[5-methyl-oxazolidine] (66204-44-2)**

- **ATE CLP (oral)**: 500,000 mg/kg bodyweight
- **ATE CLP (gases)**: 4500,000 ppmv/4h
- **ATE CLP (vapours)**: 11,000 mg/l/4h
- **ATE CLP (dust,mist)**: 1,500 mg/l/4h

**2-butoxyethanol (111-76-2)**

- **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**: Causes severe skin burns and eye damage.

**Serious eye damage/irritation**: Serious eye damage, category 1, implicit

**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

**3,3’-methylenebis[5-methyl-oxazolidine] (66204-44-2)**

Persistence and degradability: Readily biodegradable in water.

### 12.3. Bioaccumulative potential

**3,3’-methylenebis[5-methyl-oxazolidine] (66204-44-2)**

Bioaccumulative potential: Bioaccumulation: not applicable.

### 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) : 2924

14.2. UN proper shipping name
Proper Shipping Name (ADR) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Transport document description (ADR) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ; 3,3’-methylenebis[5-methyl-oxazolidine]), 3 (8), III, (D/E)

14.3. Transport hazard class(es)
Class (ADR) : 3
Danger labels (ADR) : 3, 8

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.) : 38
Classification code (ADR) : FC
Orange plates : Special provisions (ADR) : 274
Transport category (ADR) : 3
Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1
EAC code : •3W
APP code : A(fl)

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

14.6.3. Air transport
Instruction "cargo" (ICAO) : 365
Instruction "passenger" (ICAO) : 354
Instruction "passenger" - Limited quantities (ICAO) : Y342

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
Fuel Biocide is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
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)
- Acute Tox. 4 (Inhalation: dust, mist)
- Acute Tox. 4 (Oral)
- Aquatic Chronic 3
- Asp. Tox. 1
- Eye Irrit. 2
- Flam. Liq. 3
- Skin Corr. 1C
- Skin Irrit. 2
- STOT RE 1
- H226
- H302
- H304
- H312
- H314
- H315
- H319
- H332
- H372
- H412
- R20/21/22
- R21/22
- R34
- R36/38
- R48/20
- R52
- R65
- R66
- C
- Xi
- Xn

Acute toxicity (dermal), Category 4
Acute toxicity (inhal.), Category 4
Acute toxicity (inhalation: dust, mist) Category 4
Acute toxicity (oral), Category 4
Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aspiration hazard, Category 1
Serious eye damage/eye irritation, Category 2
Flammable liquids, Category 3
Skin corrosion/irritation, Category 1C
Skin corrosion/irritation, Category 2
Specific target organ toxicity — Repeated exposure, Category 1
Flammable liquid and vapour
Harmful if swallowed
May be fatal if swallowed and enters airways
Harmful in contact with skin
Causes severe skin burns and eye damage
Causes skin irritation
Causes serious eye irritation
Harmful if inhaled
Causes damage to organs through prolonged or repeated exposure
Harmful to aquatic life with long lasting effects
Harmful by inhalation, in contact with skin and if swallowed
Harmful in contact with skin and if swallowed
Causes burns
Irritating to eyes and skin
Harmful: danger of serious damage to health by prolonged exposure through inhalation
Harmful to aquatic organisms
Harmful: may cause lung damage if swallowed
Repeated exposure may cause skin dryness or cracking
Corrosive
Irritant
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.