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

1.1. Product identifier
Product form : Mixture
Product name : Fuel Stabiliser
Product code : ZAW308

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

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Wynn Oil SA PTY (Ltd)
22 Mopedi Road
1609 Johannesburg - South Africa
T +27 11 6093708
info@wynns.co.za - www.wynns.co.za

1.4. Emergency telephone number
Emergency number : +27 11 6093708

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
Skin Irrit. 2 H315
Repr. 2 H361d
STOT SE 3 H336
Asp. Tox. 1 H304
Aquatic Chronic 2 H411

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  GHS09

Signal word (CLP) : Danger
Hazardous ingredients : Naphtha (petroleum), hydrodesulfurized heavy; Kerosine (petroleum); Toluene
Hazard statements (CLP) : H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H361d - Suspected of damaging the unborn child
H411 - Toxic to aquatic life with long lasting effects

EUH-statements : EUH208 - Contains Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol. May produce an allergic reaction

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
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 Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrodesulfurized heavy</td>
<td>(CAS No) 64742-82-1 (EC no) 265-185-4 (EC index no) 649-330-00-2</td>
<td>50 - 75</td>
<td>Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Kerosine (petroleum)</td>
<td>(CAS No) 8008-20-6 (EC no) 232-366-4 (EC index no) 649-404-00-4 (REACH-no) 01-2119485517-27</td>
<td>10 - 25</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>n-heptane</td>
<td>(CAS No) 142-82-5 (EC no) 205-563-8 (EC index no) 601-008-00-2 (REACH-no) 01-2119457603-38</td>
<td>2,5 - 5</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Octane; n-octane</td>
<td>(CAS No) 111-65-9 (EC no) 203-892-1 (EC index no) 601-009-00-8 (REACH-no) 01-2119463939-19</td>
<td>2,5 - 5</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Methylcyclohexum</td>
<td>(CAS No) 108-87-2 (EC no) 203-624-3 (EC index no) 601-018-00-7 (REACH-no) 01-2119463273-41</td>
<td>2,5 - 5</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>(CAS No) 110-82-7 (EC no) 203-806-2 (EC index no) 601-017-00-1 (REACH-no) 01-2119471310-51</td>
<td>2,5 - 5</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Toluene</td>
<td>(CAS No) 108-88-3 (EC no) 203-625-9 (EC index no) 601-021-00-3 (REACH-no) 01-2119478126-32</td>
<td>2,5 - 5</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>xylene substance with a Community workplace exposure limit</td>
<td>(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32</td>
<td>0,1 - 1</td>
<td>Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation: dust, mist), H332 Skin Sens. 1, H317</td>
</tr>
<tr>
<td>Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol</td>
<td>(EC no) 911-254-5 (REACH-no) 01-2119537289-29</td>
<td>0,1 - 1</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 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


P280 - Wear protective gloves
P273 - Avoid release to the environment
First-aid measures after inhalation: Remove victim to fresh air. Respiratory problems: consult a doctor/medical service.

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. Immediately call a POISON CENTER or doctor/physician. Ingestion of large quantities: immediately to hospital.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries: May cause an allergic skin reaction.
Symptoms/injuries after inhalation: Suspected of damaging the unborn child.
Symptoms/injuries after skin contact: Repeated exposure may cause skin dryness or cracking. Causes skin irritation.

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: 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. Prevent flow to low areas. Large spills/in enclosed spaces: compressed air apparatus. Ventilate spillage area. 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
Avoid release to the environment. Prevent entry to sewers and public waters.

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
No additional information available

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling: Meet the legal requirements. Provide good ventilation in process area to prevent formation of vapour. 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

Technical measures: Take precautionary measures against static discharge.

Storage conditions: Meet the legal requirements. Protect from sunlight. Store in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a closed container.

Storage temperature: < 45 °C

Storage area: Meet the legal requirements. Fireproof storeroom. Ventilation along the floor.

Special rules on packaging: Meet the legal requirements. correctly labelled.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

**Kerosine (petroleum) (8008-20-6)**

- **Belgium**
  - Limit value (mg/m³): 200 mg/m³
  - Remark (BE): D

**Toluene (108-88-3)**

- **Belgium**
  - Limit value (mg/m³): 77 mg/m³
  - Limit value (ppm): 20 ppm
  - Short time value (mg/m³): 384 mg/m³
  - Short time value (ppm): 100 ppm
  - Remark (BE): D

**Cyclohexane (110-82-7)**

- **Belgium**
  - Limit value (mg/m³): 350 mg/m³
  - Limit value (ppm): 100 ppm

**Methylcyclohexane (108-87-2)**

- **Belgium**
  - Limit value (mg/m³): 1633 mg/m³
  - Limit value (ppm): 400 ppm

**Octane; n-octane (111-65-9)**

- **Belgium**
  - Limit value (mg/m³): 1420 mg/m³
  - Limit value (ppm): 300 ppm
  - Short time value (mg/m³): 1775 mg/m³
  - Short time value (ppm): 375 ppm

**n-heptane (142-82-5)**

- **EU**
  - IOELV TWA (mg/m³): 2085 mg/m³
  - IOELV TWA (ppm): 500 ppm
  - Belgium
    - Limit value (mg/m³): 1664 mg/m³
    - Limit value (ppm): 400 ppm
    - Short time value (mg/m³): 2085 mg/m³
    - Short time value (ppm): 500 ppm

**xylene (1330-20-7)**

- **EU**
  - IOELV TWA (mg/m³): 221 mg/m³
  - IOELV TWA (ppm): 50 ppm
  - IOELV STEL (mg/m³): 442 mg/m³
  - IOELV STEL (ppm): 100 ppm
  - Belgium
    - Limit value (mg/m³): 221 mg/m³
    - Limit value (ppm): 50 ppm
    - Short time value (mg/m³): 442 mg/m³
    - Short time value (ppm): 100 ppm
    - Remark (BE): D

**Toluene (108-88-3)**

- **DNEL/DMEL (Workers)**
### Toluene (108-88-3)

- **Long-term - systemic effects, dermal** 384 mg/kg bodyweight/day
- **Long-term - systemic effects, inhalation** 192 mg/m³
- **Long-term - local effects, inhalation** 192 mg/m³
- **DNEL/DMEL (General population)**
  - **Long-term - systemic effects, oral** 8.13 mg/kg bodyweight/day
  - **Long-term - systemic effects, inhalation** 56.5 mg/m³
  - **Long-term - systemic effects, dermal** 226 mg/kg bodyweight/day
  - **Long-term - local effects, inhalation** 56.5 mg/m³
- **PNEC (Water)**
  - PNEC aqua (freshwater) 0.68 mg/l
  - PNEC aqua (marine water) 0.68 mg/l
  - PNEC aqua (intermittent, freshwater) 0.68 mg/l
- **PNEC (Sediment)**
  - PNEC sediment (freshwater) 16.39 mg/kg dwt
  - PNEC sediment (marine water) 16.39 mg/kg dwt
- **PNEC (Soil)**
  - PNEC soil 2.89 mg/kg dwt
- **PNEC (STP)**
  - PNEC sewage treatment plant 13.61 mg/l

### Cyclohexane (110-82-7)

- **DNEL/DMEL (Workers)**
  - **Acute - systemic effects, inhalation** 700 mg/m³
  - **Acute - local effects, inhalation** 700 mg/m³
  - **Long-term - systemic effects, dermal** 2016 mg/kg bodyweight/day
  - **Long-term - systemic effects, inhalation** 700 mg/m³
  - **Long-term - local effects, inhalation** 700 mg/m³
- **DNEL/DMEL (General population)**
  - **Acute - systemic effects, inhalation** 412
  - **Acute - local effects, inhalation** 412 mg/m³
  - **Long-term - systemic effects, oral** 59.4 mg/kg bodyweight/day
  - **Long-term - systemic effects, inhalation** 206 mg/m³
  - **Long-term - systemic effects, dermal** 1186 mg/kg bodyweight/day
  - **Long-term - local effects, inhalation** 206 mg/m³
- **PNEC (Water)**
  - PNEC aqua (freshwater) 0.207 mg/l
  - PNEC aqua (marine water) 0.207 mg/l
  - PNEC aqua (intermittent, freshwater) 0.207 mg/l
- **PNEC (Sediment)**
  - PNEC sediment (freshwater) 3,627 mg/kg dwt
  - PNEC sediment (marine water) 3,627 mg/kg dwt
- **PNEC (Soil)**
  - PNEC soil 2.99 mg/kg dwt
- **PNEC (STP)**
  - PNEC sewage treatment plant 3.24 mg/l

### Methylcyclohexane (108-87-2)

- **DNEL/DMEL (Workers)**
  - **Long-term - systemic effects, dermal** 1.7 mg/kg bodyweight/day
  - **Long-term - systemic effects, inhalation** 64.3 mg/m³
- **DNEL/DMEL (General population)**
  - **Long-term - systemic effects, oral** 0.4 mg/kg bodyweight/day
  - **Long-term - systemic effects, inhalation** 16 mg/m³
  - **Long-term - systemic effects, dermal** 0.8 mg/kg bodyweight/day

### Octane; n-octane (111-65-9)

- **DNEL/DMEL (Workers)**
  - **Long-term - systemic effects, dermal** 773 mg/kg bodyweight/day
  - **Long-term - systemic effects, inhalation** 2035 mg/m³
### Octane; n-octane (111-65-9)

<table>
<thead>
<tr>
<th>Effect Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term - systemic effects, oral</td>
<td>699 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>608 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal</td>
<td>699 mg/kg bodyweight/day</td>
</tr>
</tbody>
</table>

**PNEC (Sediment)**
- PNEC sediment (freshwater): 4 mg/kg dwt
- PNEC sediment (marine water): 4 mg/kg dwt

**PNEC (Soil)**
- PNEC soil: 1,6 mg/kg dwt

### n-heptane (142-82-5)

<table>
<thead>
<tr>
<th>Effect Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term - systemic effects, dermal</td>
<td>300 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>2085 mg/m³</td>
</tr>
</tbody>
</table>

**PNEC (Water)**
- PNEC aqua (freshwater): 0,327 mg/l
- PNEC aqua (marine water): 0,327 mg/l
- PNEC aqua (intermittent, freshwater): 0,327 mg/l

### xylene (1330-20-7)

<table>
<thead>
<tr>
<th>Effect Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute - systemic effects, inhalation</td>
<td>289 mg/m³</td>
</tr>
<tr>
<td>Acute - local effects, inhalation</td>
<td>289 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal</td>
<td>180 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>77 mg/m³</td>
</tr>
</tbody>
</table>

**PNEC (Water)**
- PNEC sewage treatment plant: 6,58 mg/l

### Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol

<table>
<thead>
<tr>
<th>Effect Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute - systemic effects, dermal</td>
<td>0,12 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Acute - systemic effects, inhalation</td>
<td>10,6 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal</td>
<td>0,02 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>0,14 mg/m³</td>
</tr>
</tbody>
</table>

**PNEC (Sediment)**
- PNEC sediment (freshwater): 0,547 mg/kg dwt
Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol

PNEC sediment (marine water) 0,0547 mg/kg dwt
PNEC (Soil) 0,26 mg/kg dwt
PNEC (STP) 2,2 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. Provide good ventilation in process area to prevent formation of vapour. 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

Physical state: Liquid
Colour: Colourless.
Odour: petroleum-like odour.
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
refraction index: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: 45 °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: 800 kg/m³
Solubility: insoluble in water.
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic @40°C: 3 mm²/s
Viscosity, dynamic @40°C: No data available
Viscosity: No data available
Viscosity Index: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information

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
No flames, no sparks. Eliminate all sources of ignition. 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

Kerosine (petroleum) (8008-20-6)
LD50 oral rat > 5000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rabbit > 2000 mg/kg bodyweight New Zealand White
LC50 inhalation rat (mg/l) 5,28 mg/l/4h Sprague-Dawley

Toluene (108-88-3)
LD50 oral rat 5580 mg/kg bodyweight Sprague-Dawley Cobb
LD50 dermal rabbit > 5000 mg/kg bodyweight
LC50 inhalation rat (mg/l) 28,1 mg/l/4h Sprague-Dawley
ATE CLP (oral) 5580,000 mg/kg bodyweight
ATE CLP (vapours) 28,100 mg/l/4h
ATE CLP (dust,mist) 28,100 mg/l/4h

Cyclohexane (110-82-7)
LD50 oral rat > 5000 mg/kg bodyweight
LD50 dermal rabbit > 2000 mg/kg bodyweight
LC50 inhalation rat (mg/l) > 19,07 mg/l/4h Sprague-Dawley
LC50 inhalation rat (ppm) > 5540 ppm/4h Sprague-Dawley

Octane; n-octane (111-65-9)
LD50 oral rat > 5000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rabbit > 2000 mg/kg bodyweight New Zealand White
LC50 inhalation rat (mg/l) 24,88 mg/l/4h

n-heptane (142-82-5)
LD50 oral rat > 5000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rabbit > 2000 mg/kg bodyweight New Zealand White
LC50 inhalation rat (mg/l) > 29,29 mg/l/4h Sprague-Dawley

xylene (1330-20-7)
LD50 oral rat > 3500 mg/kg bodyweight F344/N
LD50 dermal rabbit > 5000 mg/kg bodyweight
LC50 inhalation rat (mg/l) 29 mg/l/4h
ATE CLP (dermal) 1100,000 mg/kg bodyweight
ATE CLP (vapours) 29,000 mg/l/4h
ATE CLP (dust,mist) 1,500 mg/l/4h

Reaction mass of 2-tert-butyl-4,6-dimethylphenol and 4-tert-butyl-2,5-dimethylphenol
ATE CLP (oral) 500,000 mg/kg bodyweight
Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Suspected of damaging the unborn child.
Specific target organ toxicity (single exposure): May cause drowsiness or dizziness.
Specific target organ toxicity (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: Toxic to aquatic life with long lasting effects.

Kerosine (petroleum) (8008-20-6)
LC50 fish 1 96h 2 (≤ 5) mg/l Oncorhynchus mykiss
EC50 Daphnia 1 48h 1,4 mg/l
EC50 other aquatic organisms 1 72h 10 (≤ 30) mg/l Pseudokirchnerella subcapitata

Toluene (108-88-3)
LC50 fish 1 96h 5,5 mg/l Oncorhynchus kisutch
EC50 Daphnia 1 48h 3,78 mg/l Ceriodaphnia dubia
NOEC (acute) 72h 10 mg/l Skeletonema costatum

Cyclohexane (110-82-7)
LC50 fish 1 96h 4,53 mg/l Pimephales promelas
EC50 Daphnia 1 48h 0,9 mg/l Daphnia magna
EC50 other aquatic organisms 1 72h 3,4 mg/l Pseudokirchnerella subcapitata
NOEC (acute) 72h 0,9 mg/l Pseudokirchnerella subcapitata

Methylcyclohexane (108-87-2)
LC50 fish 1 96h 2,07 mg/l Oryzias latipes
EC50 Daphnia 1 48h 0,326 mg/l Daphnia magna
EC50 other aquatic organisms 1 72h 0,134 mg/l Pseudokirchnerella subcapitata
NOEC (acute) 72h 0,022 mg/l Pseudokirchnerella subcapitata

Octane; n-octane (111-65-9)
LC50 fish 1 96h 2,587 mg/l Oncorhynchus mykiss
EC50 Daphnia 1 48h 0,3 mg/l Daphnia magna
EC50 other aquatic organisms 1 72h 2,084 mg/l Pseudokirchneriella subcapitata

n-heptane (142-82-5)
LC50 fish 1 96h 5738 mg/l Oncorhynchus mykiss
EC50 Daphnia 1 48h 1,5 mg/l Daphnia magna
EC50 other aquatic organisms 1 72h 4338 mg/l Pseudokirchneriella subcapitata

xylene (1330-20-7)
LC50 fish 1 > 3 (≤ 10) mg/l @96h
EC50 Daphnia 1 > 3 (≤ 10) mg/l @48h
EC50 other aquatic organisms 1 > 3 (≤ 10) mg/l @72h algae

12.2. Persistence and degradability

Kerosine (petroleum) (8008-20-6)
Persistence and degradability biodegradable.

Methylcyclohexane (108-87-2)
Persistence and degradability Not readily biodegradable.

xylene (1330-20-7)
Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential
Fuel Stabiliser  
Safety Data Sheet  
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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**Kerosine (petroleum) (8008-20-6)**

Bioaccumulative potential: Bioaccumulative potential.

**xylene (1330-20-7)**

Bioaccumulative potential: Slightly bioaccumulative.

**12.4. Mobility in soil**

No additional information available

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

**xylene (1330-20-7)**

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

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Waste 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

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**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. (Kerosene), 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS

**14.3. Transport hazard class(es)**

Class (ADR): 3

Danger labels (ADR): 3

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**14.4. Packing group**

Packing group (ADR): III

**14.5. Environmental hazards**

Dangerous for the environment:

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 1993

Special provisions (ADR): 274, 601, 640E

Transport category (ADR): 3

Tunnel restriction code (ADR): D/E

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

13/05/2016
EN (English) 11/12

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 REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations
Water hazard class (WGK) : 3 - severe 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 (Dermal) : Acute toxicity (dermal), Category 4
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
Asp. Tox. 1 : Aspiration hazard, Category 1
Eye Irrit. 2 : Serious eye damage/eye irritation, Category 2
Flam. LIq. 2 : Flammable liquids, Category 2
Flam. LIq. 3 : Flammable liquids, Category 3
Repr. 2 : Reproductive toxicity, Category 2
Skin Irrit. 2 : Skin corrosion/irritation, Category 2
Skin Sens. 1 : Sensitisation — Skin, Category 1
STOT RE 2 : Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3 : Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225 : Highly flammable liquid and vapour
H226 : Flammable liquid and vapour
H302 : Harmful if swallowed
H304 : May be fatal if swallowed and enters airways
H312 : Harmful in contact with skin
H315 : Causes skin irritation
H317 : May cause an allergic skin reaction
<table>
<thead>
<tr>
<th>EUH Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H361d</td>
<td>Suspected of damaging the unborn child</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>EUH208</td>
<td>Contains. May produce an allergic reaction</td>
</tr>
</tbody>
</table>

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.