Diesel Particulate Filter Regenerator (1-500)

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

MSDS Version: E05.00
Date of issue: 10/08/2016
Blend Version: 4

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

1.1. Product identifier
Product form : Mixture
Product name : Diesel Particulate Filter Regenerator (1-500)
Product code : W28095

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.com

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]
STOT RE 1 H372
Asp. Tox. 1 H304
Aquatic Chronic 3 H412

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Xn; R65
Xn; R48/20
R66
R52/53

Full text of hazard classes and 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]
Hazard pictograms (CLP)

Signal word (CLP) : Danger
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
Diesel Particulate Filter Regenerator (1-500)
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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 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>75 - 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>5 - 10</td>
<td>STOT SE 3, H336, Asp. Tox. 1, H304, Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</td>
<td>(CAS No) 90622-58-5, (EC no) 920-901-0, (REACH-no) 01-2119456810-40</td>
<td>2,5 - 5</td>
<td>Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>2-ethylhexan-1-ol</td>
<td>(CAS no) 104-76-7, (EC no) 203-234-3, (REACH-no) 01-211948289-20</td>
<td>1 - 2,5</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>Satacen 3 organometalloc iron compound</td>
<td>(EC no) 479-710-1, (REACH-no) 01-0000020037-79</td>
<td>1 - 2,5</td>
<td>STOT RE 2, H373, Aquatic Chronic 4, H413</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 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
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
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
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. 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. Large spills/in enclosed spaces: compressed air apparatus. Prevent flow to low areas. 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: 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. 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: 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.

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%) |
|-----------------------------|-----------------|-----------------|
| Belgium                     | Limit value (mg/m³) | 533 mg/m³       |
| Belgium                     | Limit value (ppm)  | 100 ppm         |
| Italy - Portugal - USA      | ACGIH TWA (ppm)   | 100 ppm         |

| Hydrocarbons, C10, aromatics, <1% naphthalene |
|-----------------------------------------------|-----------------|-----------------|
| Belgium                       | Limit value (mg/m³) | 200 mg/m³       |
## 2-ethylhexan-1-ol (104-76-7)

<table>
<thead>
<tr>
<th>Country</th>
<th>Exposure Limit Value (mg/m³)</th>
<th>Exposure Limit Value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>TRGS 900 Occupational exposure limit value</td>
<td>110 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(mg/m³)</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

### Naphthalene (91-20-3)

<table>
<thead>
<tr>
<th>Country</th>
<th>Exposure Limit Value (mg/m³)</th>
<th>Exposure Limit Value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>TRGS 900 Occupational exposure limit value</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(mg/m³)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Belgium</td>
<td>Limit value (mg/m³)</td>
<td>53 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Limit value (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Belgium</td>
<td>Short time value (mg/m³)</td>
<td>80 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Short time value (ppm)</td>
<td>15 ppm</td>
</tr>
<tr>
<td>Belgium</td>
<td>Remark (BE)</td>
<td>D</td>
</tr>
</tbody>
</table>

### 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
- 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

**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): 0,284 mg/kg dwt
- PNEC (Soil): 0,047 mg/kg dwt
- 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
- Long-term - local effects, inhalation: 2,9 mg/l

### 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>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Refraction index</td>
<td>1,449</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>807 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>1,38 mm²/s</td>
</tr>
<tr>
<td>Viscosity, dynamic @40°C</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>No data available</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>
</tbody>
</table>

9.2. Other information

VOC content: 95,7 %

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 CrI: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) 6318,000 mg/kg bodyweight

**Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (90622-58-5)**
LD50 oral rat > 15000 mg/kg bodyweight Wistar
LD50 dermal rabbit >= 3160 mg/kg bodyweight New Zealand White
LC50 inhalation rat (mg/l) > 5,6 mg/l/4h Albino; COX-SD

**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) 3290,000 mg/kg bodyweight
ATE CLP (dermal) 3000,000 mg/kg bodyweight
ATE CLP (vapours) 1,100 mg/l/4h
ATE CLP (dust,mist) 1,100 mg/l/4h

**Satacen 3 organometallic iron compound**
LD50 oral rat > 2000 mg/kg bodyweight Wistar
LD50 dermal rat > 2000 mg/kg bodyweight Wistar

**Naphthalene (91-20-3)**
LD50 oral rat > 2000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rat > 2500 mg/kg bodyweight Sherman
ATE CLP (oral) 500,000 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
Specic 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 : This product contains hazardous components for the aquatic environment.
Ecology - water: Harmful to aquatic life with long lasting effects.

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50/Daphnia 96h/48h/72h (mg/l)</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 fish 1</td>
<td>5 mg/l</td>
<td>Oncorhynchus mykiss</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>10 mg/l</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>3 mg/l</td>
<td>Pseudokirchneriella subcapitata</td>
</tr>
</tbody>
</table>

**Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (90622-58-5)**

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50/Daphnia 96h/48h/72h (mg/l)</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics (90622-58-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 1000 mg/l @96h</td>
<td>Oncorhynchus mykiss</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 1000 mg/l @48h</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>&gt; 1000 mg/l @72h</td>
<td>Pseudokirchneriella subcapitata</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50/Daphnia 96h/48h/72h (mg/l)</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-ethylhexan-1-ol (104-76-7)</td>
<td>96 h, 28,2 mg/l</td>
<td>pimephales promelas</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>39 mg/l</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>11,5 mg/l</td>
<td>algae (desmodesmus subspicatus)</td>
</tr>
</tbody>
</table>

**Satacen 3 organometallic iron compound**

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50/Daphnia 96h/48h/72h (mg/l)</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satacen 3 organometallic iron compound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 1,45 mg/l @96h</td>
<td>Brachydanio rerio</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 0,36 mg/l @48h</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>&gt; 0,36 mg/l @72h</td>
<td>Pseudokirchneriella subcapitata</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50/Daphnia 96h/48h/72h (mg/l)</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene (91-20-3)</td>
<td>1,6 mg/l</td>
<td>Oncorhynchus mykiss</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>2,16 mg/l</td>
<td>Daphnia magna</td>
</tr>
</tbody>
</table>

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

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
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
Diesel Particulate Filter Regenerator (1-500)
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 : 95.7 %

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 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
Aquatic Chronic 4 Hazardous to the aquatic environment — Chronic Hazard, Category 4
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 RE 2 Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3
Specific target organ toxicity — Single exposure, Category 3,
Respiratory tract irritation

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

H373
May cause 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

H413
May cause long lasting harmful effects to aquatic life

EUH066
Repeated exposure may cause skin dryness or cracking

R20
Harmful by inhalation

R22
Harmful if swallowed

R36/37/38
Irritating to eyes, respiratory system and skin

R40
Limited evidence of a carcinogenic effect

R48/20
Harmful: danger of serious damage to health by prolonged exposure through inhalation

R48/22
Harmful: danger of serious damage to health by prolonged exposure if swallowed

R50/53
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

R53
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.