

# SAFETY DATA SHEET

## Motaquip Petrol Injector Cleaner

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

#### 1.1. Product identifier

|                         |                                  |
|-------------------------|----------------------------------|
| Product name            | Motaquip Petrol Injector Cleaner |
| Product number          | VOL400                           |
| Internal identification | B30911, 20600                    |

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

|                      |   |
|----------------------|---|
| Identified uses      | Engine cleaner.   |
| Uses advised against | This product is not recommended for any industrial, professional or consumer use other than the identified uses stated above. |

#### 1.3. Details of the supplier of the safety data sheet

|          |  |
|----------|--|
| Supplier | MOTAQUIP LIMITED<br>Unit B1, Luton Enterprise Park,<br>Sundon Park Road,<br>Luton<br>Bedfordshire<br>LU3 3GU |
|----------|--|

#### 1.4. Emergency telephone number

|                     |      |
|---------------------|------|
| Emergency telephone | Tel: |
|---------------------|------|

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

|                       |                          |
|-----------------------|--------------------------|
| Physical hazards      | Not Classified           |
| Health hazards        | Asp. Tox. 1 - H304       |
| Environmental hazards | Aquatic Chronic 3 - H412 |

Classification (67/548/EEC or 1999/45/EC) Xn;R65. R52/53,R66.

**Human health** Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. May cause skin disorders if contact is repeated or prolonged.

**Environmental** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

##### Pictogram



**Signal word** Danger

**Hazard statements** H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.

## Motaquip Petrol Injector Cleaner

|                                       |  |
|---------------------------------------|--|
| <b>Precautionary statements</b>       | P273 Avoid release to the environment.<br>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.<br>P331 Do NOT induce vomiting.<br>P405 Store locked up.<br>P501 Dispose of contents/container in accordance with national regulations. |
| <b>Supplemental label information</b> | EUH066 Repeated exposure may cause skin dryness or cracking.<br>RCH002a Restricted to professional users.  |
| <b>Contains</b>                       | DISTILLATES(PETROLEUM), HYDROTREATED LIGHT, SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC  |
| <b>Detergent labelling</b>            | ≥ 30% aliphatic hydrocarbons   |

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

|  |  |  |                |
|--|--|--|----------------|
| <b>DISTILLATES(PETROLEUM), HYDROTREATED LIGHT</b>  |  |  | <b>60-100%</b> |
| CAS number: 64742-47-8   | EC number: 265-149-8   | REACH registration number: 01-2119484819-18-XXXX |                |
| <b>Classification</b><br>Asp. Tox. 1 - H304  | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xn;R65. R66.                     |  |                |
| <b>SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC</b>   |  |  | <b>1-5%</b>    |
| CAS number: 64742-94-5   | EC number: 265-198-5   | REACH registration number: 01-2119510128-50-XXXX |                |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>STOT SE 3 - H336<br>Asp. Tox. 1 - H304<br>Aquatic Chronic 2 - H411  | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xn;R65. N;R51/53. R66,R67.       |  |                |
| <b>POLYOLEFIN ALKYL PHENOL ALKYL AMINE</b>   |  |  | <b>1-5%</b>    |
| CAS number: —  |  |  |                |
| <b>Classification</b><br>Skin Irrit. 2 - H315  | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xi;R38.                          |  |                |
| <b>1,2,4-TRIMETHYLBENZENE</b>  |  |  | <b>&lt;1%</b>  |
| CAS number: 95-63-6  | EC number: 202-436-9   | REACH registration number: 01-2119472135-42-XXXX |                |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>Acute Tox. 4 - H332<br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>STOT SE 3 - H335<br>Aquatic Chronic 2 - H411 | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>R10 Xn;R20 Xi;R36/37/38 N;R51/53 |  |                |

## Motaquip Petrol Injector Cleaner

|   |                        |  |
|---|------------------------|--|
| <b>NAPHTHALENE</b> <span style="float: right;"><b>&lt;1%</b></span> |                        |  |
| CAS number: 91-20-3   | EC number: 202-049-5   | REACH registration number: 01-2119561346-37-XXXX |
| M factor (Acute) = 1  | M factor (Chronic) = 1 |  |
| <b>Classification</b>   |                        | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Flam. Sol. 1 - H228   |                        | Carc. Cat. 3;R40 Xn;R22 N;R50/53                 |
| Acute Tox. 4 - H302   |                        |  |
| Carc. 2 - H351  |                        |  |
| Aquatic Acute 1 - H400  |                        |  |
| Aquatic Chronic 1 - H410  |                        |  |
| <b>MESITYLENE</b> <span style="float: right;"><b>&lt;1%</b></span>  |                        |  |
| CAS number: 108-67-8  | EC number: 203-604-4   | REACH registration number: 01-2119463878-19-XXXX |
| <b>Classification</b>   |                        | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Flam. Liq. 3 - H226   |                        | R10 Xi;R37 N;R51/53                              |
| STOT SE 3 - H335  |                        |  |
| Aquatic Chronic 2 - H411  |                        |  |
| <b>CUMENE</b> <span style="float: right;"><b>&lt;1%</b></span>      |                        |  |
| CAS number: 98-82-8   | EC number: 202-704-5   | REACH registration number: 01-2119473983-24-XXXX |
| <b>Classification</b>   |                        | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Flam. Liq. 3 - H226   |                        | R10 Xn;R65 Xi;R37 N;R51/53                       |
| STOT SE 3 - H335  |                        |  |
| Asp. Tox. 1 - H304  |                        |  |
| Aquatic Chronic 2 - H411  |                        |  |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                            |   |
|----------------------------|---|
| <b>General information</b> | Remove affected person from source of contamination. Keep affected person away from heat, sparks and flames. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.   |
| <b>Inhalation</b>          | Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.  |
| <b>Ingestion</b>           | Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. |
| <b>Skin contact</b>        | Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.   |

## Motaquip Petrol Injector Cleaner

**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**Ingestion** May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**Skin contact** Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema.

**Eye contact** May cause severe eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically. Always assume aspiration may have occurred.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Toxic gases or vapours.

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Move containers from fire area if it can be done without risk. Avoid breathing fire gases or vapours. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. Extinguishing waters may present a risk of damage to the environmental, collect and dispose of as hazardous waste, in accordance with local legislation.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. No smoking, sparks, flames or other sources of ignition near spillage.

## Motaquip Petrol Injector Cleaner

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. Dike far ahead of larger spills for later disposal. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses. Use non sparking handtools and explosion-proof electric equipment.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See Section 12 for additional information on ecological hazards.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep only in the original container.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **DISTILLATES(PETROLEUM), HYDROTREATED LIGHT**

Long-term exposure limit (8-hour TWA): WEL 165 ppm 1200 mg/m<sup>3</sup> vapour

#### **1,2,4-TRIMETHYLBENZENE**

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m<sup>3</sup>

#### **NAPHTHALENE**

Long-term exposure limit (8-hour TWA): Europe, Commission Directive 91/322/EEC. Indicative values. 10 ppm 50 mg/m<sup>3</sup>

#### **MESITYLENE**

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m<sup>3</sup>

#### **CUMENE**

Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk) 125 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 250 mg/m<sup>3</sup>(Sk)

WEL = Workplace Exposure Limit

**DISTILLATES(PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)**

## Motaquip Petrol Injector Cleaner

**DNEL** No DNEL available.

**PNEC** No PNEC available.

### SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC (CAS: 64742-94-5)

**DNEL** No DNEL available.

**PNEC** No PNEC available.

### POLYOLEFIN ALKYL PHENOL ALKYL AMINE

**DNEL** No DNEL available.

**PNEC** No PNEC available.

### 1,2,4-TRIMETHYLBENZENE (CAS: 95-63-6)

**DNEL** Workers - Inhalation; Long term systemic effects: 100 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term Acute: 100 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 100 mg/m<sup>3</sup>  
 General population - Inhalation; Long term systemic effects: 29.4 mg/m<sup>3</sup>  
 General population - Inhalation; Short term Acute: 29.4 mg/m<sup>3</sup>  
 General population - Inhalation; Long term local effects: 29.4 mg/m<sup>3</sup>  
 General population - Oral; Long term systemic effects: 15 mg/kg bw/day

**PNEC** - Fresh water; 0.12 mg/l  
 - Marine water; 0.12 mg/l  
 - Intermittent release; 0.12 mg/l  
 - STP; 2.41 mg/l  
 - Sediment (Freshwater); 13.56 mg/kg sediment dw  
 - Sediment (Marinewater); 13.56 mg/kg sediment dw  
 - Soil; 2.34 mg/kg soil dw

### SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (CAS: 64742-95-6)

**DNEL** No DNEL available.

**PNEC** No PNEC available.

### 2-ETHYL HEXANOL (CAS: 104-76-7)

**DNEL** Workers - Inhalation; Long term systemic effects: 12.8 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 53.2 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term Acute: 53.2 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 23 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 2.3 mg/m<sup>3</sup>  
 General population - Inhalation; Long term local effects: 26.6 mg/m<sup>3</sup>  
 General population - Inhalation; Short term Acute: 26.6 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 11.4 mg/kg bw/day  
 General population - Oral; Long term systemic effects: 1.1 mg/kg bw/day

## Motaquip Petrol Injector Cleaner

- PNEC**
- Fresh water; 0.017 mg/l
  - Marine water; 0.0017 mg/l
  - Intermittent release; 0.17 mg/l
  - STP; 10 mg/l
  - Sediment (Freshwater); 0.284 mg/kg sediment dw
  - Sediment (Marinewater); 0.0284 mg/kg sediment dw
  - Soil; 0.047 mg/kg soil dw

### NAPHTHALENE (CAS: 91-20-3)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 25 mg/m<sup>3</sup>
  - Workers - Inhalation; Long term local effects: 25 mg/m<sup>3</sup>
  - Workers - Dermal; Long term systemic effects: 3.57 mg/kg bw/day

- PNEC**
- Fresh water; 0.0024 mg/l
  - Marine water; 0.0024 mg/l
  - Intermittent release; 0.02 mg/l
  - STP; 2.9 mg/l
  - Sediment (Freshwater); 0.0672 mg/kg sediment dw
  - Sediment (Marinewater); 0.0672 mg/kg sediment dw
  - Soil; 0.0533 mg/kg soil dw

### MESITYLENE (CAS: 108-67-8)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 100 mg/m<sup>3</sup>
  - Workers - Inhalation; Short term Acute: 100 mg/m<sup>3</sup>
  - Workers - Inhalation; Long term local effects: 100 mg/l
  - General population - Inhalation; Long term systemic effects: 29.4 mg/m<sup>3</sup>
  - General population - Inhalation; Short term Acute: 29.4 mg/m<sup>3</sup>
  - General population - Inhalation; Long term local effects: 29.4 mg/m<sup>3</sup>
  - General population - Oral; Long term systemic effects: 15 mg/kg bw/day

- PNEC**
- Fresh water; 0.101 mg/l
  - Marine water; 0.101 mg/l
  - Intermittent release; 0.101 mg/l
  - STP; 2.02 mg/l
  - Sediment (Freshwater); 7.86 mg/kg sediment dw
  - Sediment (Marinewater); 7.86 mg/kg sediment dw
  - Soil; 1.34 mg/kg soil dw

### PROPYLBENZENE (CAS: 103-65-1)

**DNEL** No DNEL available.

**PNEC** No PNEC available.

### CUMENE (CAS: 98-82-8)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 100 mg/m<sup>3</sup>
  - Workers - Inhalation; Short term local effects: 250 mg/m<sup>3</sup>
  - Workers - Dermal; Long term systemic effects: 15.4 mg/kg bw/day
  - General population - Inhalation; Long term systemic effects: 16.6 mg/m<sup>3</sup>
  - General population - Dermal; Long term systemic effects: 1.2 mg/kg bw/day
  - General population - Oral; Long term systemic effects: 5 mg/kg bw/day

## Motaquip Petrol Injector Cleaner

|             |  |
|-------------|--|
| <b>PNEC</b> | <ul style="list-style-type: none"> <li>- Fresh water; 0.035 mg/l</li> <li>- Marine water; 0.0035 mg/l</li> <li>- Intermittent release; 0.012 mg/l</li> <li>- STP; 200 mg/l</li> <li>- Sediment (Freshwater); 3.22 mg/kg sediment dw</li> <li>- Sediment (Marinewater); 0.322 mg/kg sediment dw</li> <li>- Soil; 0.624 mg/kg soil dw</li> </ul> |
|-------------|--|

### SOLVENT RED 24 (CAS: 85-83-6)

**DNEL** No DNEL available.

**PNEC** No PNEC available.

### C.I. SOLVENT YELLOW 14 (CAS: 842-07-9)

**DNEL** No DNEL available.

**PNEC** No PNEC available.

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

### Eye/face protection

The following protection should be worn: Chemical splash goggles.

### Hand protection

Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Use gloves with insulation for thermal protection (EN 407), when needed. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.



## Motaquip Petrol Injector Cleaner

|  |  |
|--|--|
| <b>Respiratory protection</b>          | Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2. |
| <b>Environmental exposure controls</b> | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.   |

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

|  |                               |
|--|-------------------------------|
| <b>Appearance</b>                      | Clear liquid.                 |
| <b>Colour</b>                          | Red.                          |
| <b>Odour</b>                           | Characteristic. Hydrocarbons. |
| <b>Initial boiling point and range</b> | 215°C @ 760 mm Hg             |
| <b>Flash point</b>                     | >62°C CC (Closed cup).        |
| <b>Relative density</b>                | 0.810 - 0.815 @ 20°C          |
| <b>Solubility(ies)</b>                 | Insoluble in water.           |

#### 9.2. Other information

|                                  |   |
|----------------------------------|---|
| <b>Volatile organic compound</b> | This product contains a maximum VOC content of 755 g/litre. |
|----------------------------------|---|

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

|                   |   |
|-------------------|---|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---|

#### 10.2. Chemical stability

|                  |  |
|------------------|--|
| <b>Stability</b> | Stable at normal ambient temperatures. |
|------------------|--|

#### 10.3. Possibility of hazardous reactions

|   |  |
|---|--|
| <b>Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur. Will not polymerise. |
|---|--|

#### 10.4. Conditions to avoid

|                            |   |
|----------------------------|---|
| <b>Conditions to avoid</b> | Avoid heat, flames and other sources of ignition. |
|----------------------------|---|

#### 10.5. Incompatible materials

|                           |  |
|---------------------------|--|
| <b>Materials to avoid</b> | Strong oxidising agents. Strong acids. |
|---------------------------|--|

#### 10.6. Hazardous decomposition products

|   |  |
|---|--|
| <b>Hazardous decomposition products</b> | Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). |
|---|--|

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Aspiration hazard

## Motaquip Petrol Injector Cleaner

|   |   |
|---|---|
| <b>Aspiration hazard</b>                | May be fatal if swallowed and enters airways.   |
| <b>General information</b>              | To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.   |
| <b>Inhalation</b>                       | Prolonged inhalation of high concentrations may damage respiratory system. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. |
| <b>Ingestion</b>                        | Harmful: may cause lung damage if swallowed. Aspiration hazard if swallowed. May give rise to nausea, vomiting, central nervous system depression.  |
| <b>Skin contact</b>                     | Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema.  |
| <b>Eye contact</b>                      | There may be irritation and redness. The eyes may water profusely.  |
| <b>Acute and chronic health hazards</b> | Not expected to be a health hazard when used under normal conditions. Harmful: may cause lung damage if swallowed. Repeated or prolonged contact may cause irritation, since the material may remove the natural greases in skin, resulting in dryness, cracking and possibly dermatitis.   |
| <b>Route of entry</b>                   | Ingestion. Skin and/or eye contact  |
| <b>Target organs</b>                    | Central nervous system Mucous membranes Respiratory system, lungs Gastro-intestinal tract   |
| <b>Medical symptoms</b>                 | Irritation of eyes and mucous membranes. Central nervous system depression. Nausea, vomiting. Always assume aspiration may have occurred.   |

### Toxicological information on ingredients.

#### DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,001.0

Species Rabbit

ATE dermal (mg/kg) 2,001.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l) 5.21

Species Rat

ATE inhalation (dusts/mists mg/l) 5.21

## Motaquip Petrol Injector Cleaner

### Skin corrosion/irritation

**Animal data** Not irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating.

### Respiratory sensitisation

**Respiratory sensitisation** No information required.

### Skin sensitisation

**Skin sensitisation** Not sensitising.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Negative.

**Genotoxicity - in vivo** Negative.

### Carcinogenicity

**Carcinogenicity** Conclusive data but not sufficient for classification.

### Reproductive toxicity

**Reproductive toxicity - fertility** Fertility: - NOAEL >3000 mg/kg/day, Oral, Rat Method OECD Test guideline 421. This substance has no evidence of toxicity to reproduction

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 1000 mg/kg/day, Oral, Rat Method OECD 414. This substance has no evidence of toxicity to reproduction.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Conclusive data but not sufficient for classification.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 750 mg/kg, Oral, Rat

**Inhalation** No specific health hazards known.

**Ingestion** Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

**Skin contact** No specific health hazards known.

**Eye contact** No specific health hazards known.

### SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,001.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 5,001.0

## Motaquip Petrol Injector Cleaner

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,001.0 mg/kg)

Species Rabbit

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 2,001.0

### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l) 5.2

Species Rat

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

ATE inhalation (dusts/mists mg/l) 5.2

### Skin corrosion/irritation

Animal data Irritating.

### Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

### Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

### Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

### Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

### Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

### Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

STOT - single exposure Inhalation: May cause drowsiness and dizziness.

Target organs Central nervous system

### Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

### Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

## Motaquip Petrol Injector Cleaner

### SECTION 12: Ecological Information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

#### 12.1. Toxicity

**Toxicity** Incomplete assessment.

#### Ecological information on ingredients.

##### DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

|   |  |
|---|--|
| <b>Acute toxicity - fish</b>                  | LL <sub>50</sub> , 96 hours: 20 mg/l, Onchorhynchus mykiss (Rainbow trout)<br>NOEL, 96 hours: 6.8 mg/l, Onchorhynchus mykiss (Rainbow trout) |
| <b>Acute toxicity - aquatic invertebrates</b> | EL50, 48 hours: 40-89 mg/l, Daphnia magna<br>NOEL, 48 hours: 40 mg/l, Daphnia magna  |
| <b>Acute toxicity - aquatic plants</b>        | EL50, 72 hours: 10-30 mg/l, Pseudokirchneriella subcapitata<br>NOEL, 72 hours: 10 mg/l, Pseudokirchneriella subcapitata                      |
| <b>Acute toxicity - microorganisms</b>        | EC <sub>50</sub> , 72 hours, 72 hours: 678 mg/l, Activated sludge  |

##### SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC

|   |   |
|---|---|
| <b>Acute toxicity - fish</b>                  | LL <sub>50</sub> , 96 hours: 2 - 5 mg/l, Onchorhynchus mykiss (Rainbow trout)<br>NOEL, 96 hours: 2 mg/l, Onchorhynchus mykiss (Rainbow trout) |
| <b>Acute toxicity - aquatic invertebrates</b> | EL50, 48 hours: 3 - 10 mg/l, Daphnia magna<br>NOEL, 48 hours: 3 mg/l, Daphnia magna   |
| <b>Acute toxicity - aquatic plants</b>        | EL50, Effect on growth., 72 hours: 1 - 3 mg/l, Pseudokirchneriella subcapitata  |

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be slowly biodegradable. Volatile substances are degraded in the atmosphere within a few days. The product is degraded completely by photochemical oxidation.

#### Ecological information on ingredients.

##### DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Persistence and degradability</b> | Inherently biodegradable. |
| <b>Phototransformation</b>           | Not applicable.           |
| <b>Stability (hydrolysis)</b>        | Not applicable.           |
| <b>Biodegradation</b>                | Inherently biodegradable. |

##### SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Persistence and degradability</b> | Inherently biodegradable. |
|--------------------------------------|---------------------------|

#### 12.3. Bioaccumulative potential

## Motaquip Petrol Injector Cleaner

**Bioaccumulative potential** May accumulate in soil and water systems.

### Ecological information on ingredients.

#### DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

**Bioaccumulative potential** Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

#### SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC

**Bioaccumulative potential** Data lacking.

### 12.4. Mobility in soil

**Mobility** The product contains substances which are insoluble in water and which may spread on water surfaces.

### Ecological information on ingredients.

#### DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

**Mobility** Substance is a UVCB. Standard tests for this endpoint are not appropriate. The product is immiscible with water and will spread on the water surface.

#### SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC

**Mobility** Data lacking.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

#### DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

### Ecological information on ingredients.

#### DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## Motaquip Petrol Injector Cleaner

**Disposal methods** Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor.

### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

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

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

##### **Environmentally hazardous substance/marine pollutant**

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk according to** Not applicable.

##### **Annex II of MARPOL 73/78**

**and the IBC Code**

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### **National regulations**

Control of Pollution (Special Waste) Regulations 1980 (as amended).  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

##### **EU legislation**

Dangerous Substances Directive 67/548/EEC.  
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

##### **Guidance**

Workplace Exposure Limits EH40.  
Introduction to Local Exhaust Ventilation HS(G)37.  
CHIP for everyone HSG228.  
Approved Classification and Labelling Guide (Sixth edition) L131.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

## Motaquip Petrol Injector Cleaner

|                                  |  |
|----------------------------------|--|
| <b>Issued by</b>                 | HS&E Manager.  |
| <b>Revision date</b>             | 12/06/2015   |
| <b>Revision</b>                  | 3  |
| <b>Supersedes date</b>           | 28/01/2015   |
| <b>SDS number</b>                | 20541  |
| <b>SDS status</b>                | Approved.  |
| <b>Risk phrases in full</b>      | R10 Flammable.<br>R20 Harmful by inhalation.<br>R22 Harmful if swallowed.<br>R36/37/38 Irritating to eyes, respiratory system and skin.<br>R37 Irritating to respiratory system.<br>R38 Irritating to skin.<br>R40 Limited evidence of a carcinogenic effect.<br>R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.<br>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.<br>R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.<br>R65 Harmful: may cause lung damage if swallowed.<br>R66 Repeated exposure may cause skin dryness or cracking.<br>R67 Vapours may cause drowsiness and dizziness. |
| <b>Hazard statements in full</b> | H226 Flammable liquid and vapour.<br>H228 Flammable solid.<br>H302 Harmful if swallowed.<br>H304 May be fatal if swallowed and enters airways.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H335 May cause respiratory irritation.<br>H336 May cause drowsiness or dizziness.<br>H351 Suspected of causing cancer.<br>H400 Very toxic to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects.  |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.