

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 08.04.2021

Revision: 08.04.2021

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

- **1.1 Product identifier**
- **Trade name:** JLM GDI Injector Cleaner
- **Article number:** J03190
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Cleaner solvent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 JLM Lubricants  
 Schiphol Boulevard 127  
 1118 BG Schiphol  
 The Netherlands  
 Tel: +31 (0) 20 201 4995
- **Further information obtainable from:** Research & Development: info@jlm lubricants.com
- **1.4 Emergency telephone number:** During normal business hours: Tel: +31 (0) 20 201 4995

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
 The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS05



GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
 ammonia  
 Hydrocarbons, C9, aromatics  
 1-methoxy-2-propanol

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### · Hazard statements

- H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
 H314 Causes severe skin burns and eye damage.  
 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

### · Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P260 Do not breathe spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves / eye protection.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P403 Store in a well-ventilated place.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · 2.3 Other hazards

### · Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

· **Description:** Cleansing agent

### · Dangerous components:

|   |  |          |
|---|--|----------|
| CAS: 107-98-2<br>EINECS: 203-539-1<br>Reg.nr.: 01-2119457435-35       | 1-methoxy-2-propanol<br>Flam. Liq. 3, H226; STOT SE 3, H336  | 10-<25%  |
| CAS: 128601-23-0<br>EC number: 918-668-5<br>Reg.nr.: 01-2119455851-35 | Hydrocarbons,C9,aromatics<br>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411;<br>STOT SE 3, H335-H336   | 10-<25%  |
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Reg.nr.: 01-2119486944-21        | propane<br>Flam. Gas 1A, H220; Press. Gas (Comp.), H280  | 2.5-<10% |
| CAS: 111-76-2<br>EINECS: 203-905-0<br>Reg.nr.: 01-2119475108-36       | 2-butoxyethanol<br>Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 2.5-<10% |
| CAS: 1336-21-6<br>EINECS: 215-647-6<br>Reg.nr.: 01-2119488876-14      | ammonia<br>Skin Corr. 1B, H314; Aquatic Acute 1, H400; STOT SE 3, H335   | ≥5-<10%  |
| CAS: 157627-86-6  | Alcohols, C13-15-branched and linear,ethoxylated<br>Aquatic Acute 1, H400; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 | 2.5-<10% |
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Reg.nr.: 01-2119474691-32       | butane (containing < 0.1% butadiene (203-450-8), Note K)<br>Flam. Gas 1A, H220; Press. Gas (Comp.), H280               | 1-<2.5%  |
| CAS: 75-28-5<br>EINECS: 200-857-2<br>Reg.nr.: 01-2119485395-27        | isobutane (containing < 0.1 % butadiene (203-450-8), Note K)<br>Flam. Gas 1A, H220; Press. Gas (Comp.), H280           | 0.1-<1%  |

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- **Additional information:** The text of the hazard statements mentioned here can be found in chapter 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Water haze  
Fire-extinguishing powder  
Carbon dioxide  
Alcohol resistant foam
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:**  
Observe official regulations on storing packagings with pressurised containers.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

#### · Ingredients with limit values that require monitoring at the workplace:

##### 107-98-2 1-methoxy-2-propanol

|     |   |
|-----|---|
| WEL | Short-term value: 560 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 375 mg/m <sup>3</sup> , 100 ppm<br>Sk |
|-----|---|

##### 74-98-6 propane

|     |  |
|-----|--|
| OEL | Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm<br>Additioneel ingevuld tbv klant voor Hfdst3 SDS |
|-----|--|

##### 111-76-2 2-butoxyethanol

|     |   |
|-----|---|
| WEL | Short-term value: 246 mg/m <sup>3</sup> , 50 ppm<br>Long-term value: 123 mg/m <sup>3</sup> , 25 ppm<br>Sk, BMGV |
|-----|---|

##### 106-97-8 butane (containing < 0.1% butadiene (203-450-8), Note K)

|     |   |
|-----|---|
| WEL | Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm<br>Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm<br>Carc (if more than 0.1% of buta-1.3-diene) |
|-----|---|

##### 75-28-5 isobutane (containing < 0,1 % butadiene (203-450-8), Note K)

|     |   |
|-----|---|
| OEL | Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm<br>Additioneel ingevuld obv klant voor Hfdst 3 SDS |
|-----|---|

#### · DNELs

##### 107-98-2 1-methoxy-2-propanol

|            |                         |   |
|------------|-------------------------|---|
| Oral       | DNEL Long term-systemic | 3.3 mg/kg bw/day (Consumer)   |
| Dermal     | DNEL Long term-systemic | 18.1 mg/kg bw/day (Consumer)<br>50.6 mg/kg bw/day (Worker)          |
| Inhalative | DNEL Acute-local        | 553.5 mg/m <sup>3</sup> (Worker)                                    |
|            | DNEL Long term-systemic | 43.9 mg/m <sup>3</sup> (Consumer)<br>369 mg/m <sup>3</sup> (Worker) |

##### 128601-23-0 Hydrocarbons,C9,aromatics

|            |                         |   |
|------------|-------------------------|---|
| Oral       | DNEL Long term-systemic | 11 mg/kg bw/day (Consumer)  |
| Dermal     | DNEL Long term-systemic | 11 mg/kg bw/day (Consumer)<br>25 mg/kg bw/day (Worker)            |
| Inhalative | DNEL Long term-systemic | 32 mg/m <sup>3</sup> (Consumer)<br>100 mg/m <sup>3</sup> (Worker) |

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## · PNECs

**107-98-2 1-methoxy-2-propanol**

|                          |                                   |
|--------------------------|-----------------------------------|
| PNEC Freshwater          | 10 mg/l (Undefined)               |
| PNEC Freshwater sediment | 41.6 mg/l(dry weight) (Undefined) |
| PNEC Soil                | 2.47 ug/kg (Undefined)            |

· **Ingredients with biological limit values:****111-76-2 2-butoxyethanol**

|      |                              |
|------|------------------------------|
| BMGV | 240 mmol/mol creatinine      |
|      | Medium: urine                |
|      | Sampling time: post shift    |
|      | Parameter: butoxyacetic acid |

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

General ventilation

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter ABEK/P2

· **Protection of hands:**

Wear gloves for the protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Safety glasses



Tightly sealed goggles

· **Body protection:**

Use protective suit. (EN-13034/6)

Full skin covering antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688; EN13034-6).

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- **Limitation and supervision of exposure into the environment**  
Use a suitable container to prevent environmental contamination.

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

|                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Aerosol         |
| · <b>Colour:</b>          | Colourless      |
| · <b>Odour:</b>           | Ammonia-like    |
| · <b>Odour threshold:</b> | Not determined. |

· **pH-value at 20 °C:** 10

##### · Change in condition

|   |               |
|---|---------------|
| · <b>Melting point/freezing point:</b>            | Undetermined. |
| · <b>Initial boiling point and boiling range:</b> | -44.5 °C      |

· **Flash point:** -97 °C

· **Flammability (solid, gas):** Not applicable.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### · Explosion limits:

|                 |           |
|-----------------|-----------|
| · <b>Lower:</b> | 0.7 Vol % |
| · <b>Upper:</b> | 20 Vol %  |

· **Vapour pressure at 20 °C:** 8300 hPa

|                           |                 |
|---------------------------|-----------------|
| · <b>Density:</b>         | Not determined. |
| · <b>Relative density</b> | Not determined. |
| · <b>Vapour density</b>   | Not determined. |
| · <b>Evaporation rate</b> | Not applicable. |

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **Partition coefficient: n-octanol/water:** Not determined.

##### · Viscosity:

|                     |                 |
|---------------------|-----------------|
| · <b>Dynamic:</b>   | Not determined  |
| · <b>Kinematic:</b> | Not determined. |

##### · Solvent content:

|                            |        |
|----------------------------|--------|
| · <b>Organic solvents:</b> | 58.5 % |
| · <b>Water:</b>            | 17.0 % |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

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· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

#### 107-98-2 1-methoxy-2-propanol

|            |           |                               |
|------------|-----------|-------------------------------|
| Oral       | LD50      | 4016 mg/kg (Rat)              |
| Dermal     | LD50      | >2000 mg/kg (Rat)             |
| Inhalative | LC50 (4h) | 28.8 mg/l (Rat)               |
|            | LC50 (6h) | 27596 mg/m <sup>3</sup> (Rat) |

#### 128601-23-0 Hydrocarbons, C<sub>9</sub>, aromatics

|            |           |  |
|------------|-----------|--|
| Oral       | LD50      | 3492 mg/kg (Rat)                             |
| Dermal     | LD50      | >3160 mg/kg (Rabbit)                         |
| Inhalative | LC50 (4h) | >6193 mg/l (Rat) (Acute Inhalation Toxicity) |

#### 112-80-1 oleic acid, pure

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 25000 mg/kg (Rat) |
|------|------|-------------------|

#### 111-76-2 2-butoxyethanol

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 300 mg/kg (Rabbit)  |
|        |      | 470 mg/kg (Rat)     |
| Dermal | LD50 | 2000 mg/kg (Rabbit) |

#### 157627-86-6 Alcohols, C<sub>13-15</sub>-branched and linear, ethoxylated

|      |      |                    |
|------|------|--------------------|
| Oral | LC50 | >20000 mg/kg (Rat) |
|------|------|--------------------|

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

#### 107-98-2 1-methoxy-2-propanol

|            |                            |
|------------|----------------------------|
| LC50 (96h) | 6812 mg/l (Fish)           |
| EC50 (48h) | 23300 mg/l (Daphnia magna) |

#### 128601-23-0 Hydrocarbons, C<sub>9</sub>, aromatics

|             |  |
|-------------|--|
| NOELR (72h) | 1 mg/l (Pseudokirchneriella subcapitata) |
|-------------|--|

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|  |  |
|--|--|
| EL50 (48h)   | 3.2 mg/l (Daphnia magna)   |
| LL50 (96h)   | 9.2 mg/l (Oncorhynchus mykiss)                                   |
| <b>112-80-1 oleic acid, pure</b>                                     |  |
| LC50 (96h)   | 205 mg/l (Pimephales promelas)                                   |
| EC50 (48h)   | 2.8 mg/l (Daphnia magna) (Daphnia sp. Acute Immobilisation Test) |
| <b>111-76-2 2-butoxyethanol</b>                                      |  |
| LC50   | 1490 mg/l (Lepomis macrochirus)                                  |
| <b>157627-86-6 Alcohols, C13-15-branched and linear, ethoxylated</b> |  |
| LC0 (96h)  | 1-10 mg/l (Brachydanio rerio)                                    |
| EC10   | >10 mg/l (Pseudomonas putida)                                    |
| EC50 (72h)   | 0.1-1 mg/l (Scenedesmus subspicatus)                             |
| EC50 (48h)   | 0.1-1 mg/l (dap)   |

- **12.2 Persistence and degradability** Not easily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>   | UN1950  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, ADN</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | UN1950 AEROSOLS<br>AEROSOLS<br>AEROSOLS, flammable, containing substances in Class 8, Packing Group III |

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· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 2 5FC Gases.  
 · **Label** 2.1+8

· **ADN**

· **ADN/R Class:** 2 5FC

· **IMDG**



· **Class** 2.1  
 · **Label** 2.1/8

· **IATA**



· **Class** 2.1  
 · **Label** 2.1 (8)

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**

· **Marine pollutant:** Yes

· **14.6 Special precautions for user**

· **Hazard identification number (Kemler code):** -  
 · **EMS Number:** F-D,S-U  
 · **Segregation groups** Alkalis  
 · **Stowage Code** SW1 Protected from sources of heat.  
 SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  
 · **Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre:  
 Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.  
 For AEROSOLS with a capacity above 1 litre:  
 Segregation as for the appropriate subdivision of class 2.  
 For WASTE AEROSOLS:  
 Segregation as for the appropriate subdivision of class 2.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 1L

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|   |  |
|---|--|
| · <b>Excepted quantities (EQ)</b>           | Code: E0<br>Not permitted as Excepted Quantity |
| · <b>Transport category</b>                 | 3  |
| · <b>Tunnel restriction code</b>            | E  |
| <hr style="border-top: 1px dashed black;"/> |  |
| · <b>IMDG</b>                               |  |
| · <b>Limited quantities (LQ)</b>            | 1L   |
| · <b>Excepted quantities (EQ)</b>           | Code: E0<br>Not permitted as Excepted Quantity |
| · <b>UN "Model Regulation":</b>             | UN 1950 AEROSOLS, 2.1 (8)                      |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations:**
- **Breakdown regulations:**

| Class  | Share in % |
|--------|------------|
| Wasser | 10-<25     |
| NK     | 50-<75     |
- **VOC-CH** 58.50 %
- **VOC-EU** 585.0 g/l
- **Danish MAL Code** 5-3
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H220 Extremely flammable gas.
  - H226 Flammable liquid and vapour.
  - H280 Contains gas under pressure; may explode if heated.
  - H302 Harmful if swallowed.
  - H304 May be fatal if swallowed and enters airways.
  - H312 Harmful in contact with skin.
  - H314 Causes severe skin burns and eye damage.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H400 Very toxic to aquatic life.
  - H411 Toxic to aquatic life with long lasting effects.
  - H412 Harmful to aquatic life with long lasting effects.
- **Department issuing SDS:** Research & Development
- **Contact:** G.Groot
- **Abbreviations and acronyms:**
  - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date: 08.04.2021

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**Trade name: JLM GDI Injector Cleaner**

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IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Gas 1A: Flammable gases – Category 1A  
 Aerosol 1: Aerosols – Category 1  
 Press. Gas (Comp.): Gases under pressure – Compressed gas  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3  
 · **\* Data compared to the previous version altered. \***

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