

# Safety data sheet

## According to 1907/2006 EEC Article 31

Printing date: 10.12.2015

Version: 13

Revision: 10.12.2015

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

#### 1.1 Product identifier

Trade name: **#J02220 JLM Diesel DPF Spray**

Article number: J02220

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

##### Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU21 Consumer uses: Private households / general public / consumers

Product category PC35 Washing and cleaning products (including solvent based products)

##### Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

Application of the substance / the mixture Surface cleaning

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

##### Manufacturer/Supplier:

JLM Lubricants b.v.

Schiphol Boulevard 127

1118 BG Schiphol

The Netherlands

0031(0)20 201 4995

info@jlm lubricants.com

Further information obtainable from: Research & Development/E-mail: info@jlm lubricants.com

1.4 Emergency telephone number: during normal opening 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



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.

Aerosol 3 H229 Pressurised container: May burst if heated.

#### 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



GHS05

Signal word Danger

Hazard-determining components of labelling:

2-aminoethanol

Hazard statements

H229 Pressurised container: May burst if heated.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

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

· **Additional information:**

18.0 % by mass of the contents are flammable

· **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:** Active substance with propellant

· **Dangerous components:**

|   |  |           |
|---|--|-----------|
| CAS: 34590-94-8<br>EINECS: 252-104-2<br>Reg.nr.: 01-2119450011-60 | (2-methoxymethylethoxy)propanol<br>substance with a Community workplace exposure limit               | 10-<25%   |
| CAS: 141-43-5<br>EINECS: 205-483-3<br>Reg.nr.: 01-2119486455-28   | 2-aminoethanol<br>Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312;<br>Acute Tox. 4, H332 | 2.5-<5%   |
| CAS: 7320-34-5<br>EINECS: 230-785-7                               | tetrapotassium pyrophosphate<br>Eye Irrit. 2, H319   | 1.0-<2.5% |

· **Ingredients according to detergents guideline 648/2004/EC**

|                                   |      |
|-----------------------------------|------|
| phosphates, non-ionic surfactants | < 5% |
|-----------------------------------|------|

· **Additional information:**

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **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.

Immediately rinse with water.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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- **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
- **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:**
  - Use neutralising agent.
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
- **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.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
  - 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:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

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

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### · 8.1 Control parameters

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

##### **34590-94-8 (2-methoxymethylethoxy)propanol**

|     |   |
|-----|---|
| WEL | Long-term value: 308 mg/m <sup>3</sup> , 50 ppm |
| Sk  |   |

##### **141-43-5 2-aminoethanol**

|     |   |
|-----|---|
| WEL | Short-term value: 7.6 mg/m <sup>3</sup> , 3 ppm |
|     | Long-term value: 2.5 mg/m <sup>3</sup> , 1 ppm  |
| Sk  |   |

· **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.

#### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX/P2

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

#### · Protection of hands:



Protective gloves

Solvent resistant gloves

Wear gloves for the protection against chemicals according to EN 374

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

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

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

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Tightly sealed goggles

· **Body protection:** Use protective suit. (EN-13034/6)

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### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

|                  |                                    |
|------------------|------------------------------------|
| Form:            | Aerosol                            |
| Colour:          | According to product specification |
| Odour:           | Characteristic                     |
| Odour threshold: | Not determined.                    |

· pH-value at 20 °C: 11.7

##### · Change in condition

|                              |               |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 100 °C        |

· Flash point: Not applicable, as aerosol.

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 270 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### · Explosion limits:

|        |            |
|--------|------------|
| Lower: | 1.1 Vol %  |
| Upper: | 14.0 Vol % |

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1.011 g/cm<sup>3</sup>

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not applicable.

##### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

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

##### · Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

##### · Solvent content:

|                   |        |
|-------------------|--------|
| Organic solvents: | 18.0 % |
| Water:            | 80.0 % |

Solids content: 1.0 %

· 9.2 Other information: No further relevant information available.

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### 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.
- **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:

#### 141-43-5 2-aminoethanol

|        |      |                  |
|--------|------|------------------|
| Oral   | LD50 | 2050 mg/kg (rat) |
| Dermal | LD50 | 1000 mg/kg (rbt) |

- **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.
- **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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

#### · Aquatic toxicity:

#### 7320-34-5 tetrapotassium pyrophosphate

|      |   |
|------|---|
| LC50 | >750 mg/l (Fish (Golden Orfe))          |
|      | >750 mg/l (Fish (leuciscus idus, 48hr)) |

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **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

- |   |  |
|---|--|
| · <b>14.1 UN-Number</b>   |  |
| · <b>ADR, ADN, IMDG, IATA</b>   | UN1950   |
| · <b>14.2 UN proper shipping name</b>   |  |
| · <b>ADR, ADN</b>   | UN1950 AEROSOLS  |
| · <b>IMDG</b>   | AEROSOLS   |
| · <b>IATA</b>   | Aerosols, non-flammable  |
| · <b>14.3 Transport hazard class(es)</b>  |  |
| · <b>ADR</b>  |  |
|  |  |
| · <b>Class</b>  | 2 5A Gases.  |
| · <b>Label</b>  | 2.2  |
| · <b>ADN</b>  |  |
| · <b>ADN/R Class:</b>   | 2 5A   |
| · <b>IMDG, IATA</b>   |  |
|  |  |
| · <b>Class</b>  | 2.2  |
| · <b>Label</b>  | 2.2  |
| · <b>14.4 Packing group</b>   |  |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>14.5 Environmental hazards:</b>  |  |
| · <b>Marine pollutant:</b>  | No   |
| · <b>14.6 Special precautions for user</b>  | Warning: Gases.  |
| · <b>Danger code (Kemler):</b>  | -  |
| · <b>EMS Number:</b>  | F-D,S-U  |
| · <b>Stowage Code</b>   | SW1 Protected from sources of heat.<br>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. |
| · <b>Segregation Code</b>   | 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   |

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|   |  |
|---|--|
| · 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. |  |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>  | Not applicable.                                |
| · <b>Transport/Additional information:</b>  |  |
| · <b>ADR</b>  |  |
| · <b>Limited quantities (LQ)</b>  | 1L   |
| · <b>Excepted quantities (EQ)</b>   | Code: E0<br>Not permitted as Excepted Quantity |
| · <b>Transport category</b>   | 3  |
| · <b>Tunnel restriction code</b>  | E  |
| · <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, 2.2                          |

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### 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.
  - **National regulations:**
  - **Technical instructions (air):**
- | Class  | Share in % |
|--------|------------|
| Wasser | 75-<100    |
| NK     | 10-<25     |
- **VOC-EU**
  - **Danish MAL Code** 4-3
  - **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**  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.
- **Department issuing MSDS:** Research & Development
- **Contact:** Ing. J. Sleumer
- **Abbreviations and acronyms:**  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods

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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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Aerosol 3: Flammable aerosols, Hazard Category 3  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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