

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.12.2015

Version number 5

Revision: 15.12.2015

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

- **1.1 Product identifier**
- **Trade name:** JLM Diesel Rapid Fuel System Clean #J02330
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC0 Other
- **Application of the substance / the mixture** Fuel Additive.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Importer / Supplier:**  
JLM Lubricants b.v.  
Schiphol Boulevard  
1118 BG Schiphol  
Tel.: +31 (0)20 201 4995  
  
Email: info@jlm lubricants.com  
www.jlm lubricants.com
- **Further information obtainable from:** Product safety department.
- **1.4 Emergency telephone number:**  
This telephone number can be reached during office 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**



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **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** GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromates
- **Hazard statements**  
H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves / eye protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
EUH044 Risk of explosion if heated under confinement.  
EUH066 Repeated exposure may cause skin dryness or cracking.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

|                                                   |                                                                                           |         |
|---------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| EC number: 918-481-9<br>Reg.nr.: 01-2119457273-39 | Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromates<br>Asp. Tox. 1, H304 | 50-100% |
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**Trade name: JLM Diesel Rapid Fuel System Clean**

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|                                                                                                 |                                                                                                                 |        |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------|
| CAS: 27247-96-7<br>EINECS: 248-363-6                                                            | 2-Ethylhexyl nitrate<br>⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | 10-25% |
| CAS: 64742-94-5<br>EINECS: 265-198-5<br>Index number: 649-424-00-3<br>Reg.nr.: 01-2119451097-39 | Solvent naphtha, heavy arom.<br>⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336               | < 1.0% |

• **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### \* SECTION 4: First aid measures

#### • 4.1 Description of first aid measures

##### • General information:

Persons, providing assistance, should avoid exposure and danger for themselves or others.

Take affected persons out of danger area and lay down.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

##### • After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

##### • After skin contact:

Take off contaminated clothing immediately and wash the skin with plenty of water. (possibly showering)

Do NOT use solvents or thinners.

##### • After eye contact:

Rinse opened eye for several minutes (at least 15 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

After ingestion of the liquid, droplets of the product may enter the lungs (aspiration), whereby pneumonia can occur.

### \* SECTION 5: Firefighting measures

#### • 5.1 Extinguishing media

##### • Suitable extinguishing agents: CO<sub>2</sub>, powder, foam or water spray. Fight larger fires with water spray or alcohol resistant foam.

##### • For safety reasons unsuitable extinguishing agents: Water with full jet

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

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Keep dust/vapour clouds away from possible ignition points.

#### • 5.3 Advice for firefighters

##### • Protective equipment: Wear self-contained respiratory protective device.

##### • Additional information Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Avoid breathing vapor and contact with eyes, skin and clothing.

#### • 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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

Prevent formation of aerosols.

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- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Observe the general rules for fire prevention.
- **7.2 Conditions for safe storage, including any incompatibilities**  
Storage must comply with the local regulations, such as PGS15 (NL), Vlareml (B), TGS510 (D).
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Store in a cool location.  
All hazardous products must be placed above a sump pallet.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **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.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:**  
Not required.  
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.
- **Protection of hands:**



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **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.  
Gloves Neo-Nitrile™ 300 – AQL or 0.65 (level 3). Thickness-0.35 mm.  
Nitrile rubber, NBR
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Anti-static clothing
- **Limitation and supervision of exposure into the environment** Prevent spills to reach surface waters or soil.

### \* SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|         |             |
|---------|-------------|
| Form:   | Liquid      |
| Colour: | Transparent |
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.

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- **Change in condition**
  - Melting point/Melting range:** Not determined.
  - Boiling point/Boiling range:** > 100 °C
- **Flash point:** 62 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** > 200 °C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** 0,6 Vol %
  - Upper:** 7,0 Vol %
- **Vapour pressure at 20 °C:** 1 hPa
- **Density at 20 °C:** 0.81 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Insoluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic at 40 °C:** 7 mm<sup>2</sup>/s
- **Solvent content:**
  - VOC (EU, 1999/13/EC)** 1.69 %
  - VOC (EU, 1993/13/EC)** 1.69 %
  - VOC (USA, EPA Method 24)** 1.69 %
  - VOCV-content (Swiss)** 0.85 %
  - Oxidizing properties:** Does not contain oxidizing properties.
- **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** Reacts violently with oxidizing agents, strong acids and strong bases.
- **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**
  - Direct sunlight
  - Heat
  - Sparks-Open fire
- **10.5 Incompatible materials:** Oxidising Agents
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### \* 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:

|            |          |                        |
|------------|----------|------------------------|
| Oral       | LD50     | 6899 mg/kg (Rat) (ATE) |
| Dermal     | LD50     | 8136 mg/kg (ATE)       |
| Inhalative | LC50/4 h | 81.4 mg/l (ATE)        |

#### 27247-96-7 2-Ethylhexyl nitrate

|            |          |                  |
|------------|----------|------------------|
| Oral       | LD50     | 960 mg/kg (Rat)  |
| Dermal     | LD50     | 1100 mg/kg (ATE) |
| Inhalative | LC50/4 h | 11 mg/l (ATE)    |

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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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**  
May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · **Aquatic toxicity:**

##### **27247-96-7 2-Ethylhexyl nitrate**

|          |                                             |
|----------|---------------------------------------------|
| EC50/48h | 12.6 mg/l (Daphnia Magna)                   |
| EC50/72h | 3.22 mg/l (Pseudokirchneriella subcapitata) |
| LC50/96h | 2 mg/l (fish)                               |

- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
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.  
Harmful to 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

- **14.1 UN-Number**
- **ADR,RID,ADN, ADN, IMDG, IATA** Void
- **14.2 UN proper shipping name**
- **ADR,RID,ADN, ADN, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**
- **ADR,RID,ADN, ADN, IMDG, IATA**
- **Class** Void
- **14.4 Packing group**
- **ADR,RID,ADN, IMDG, IATA** Void
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **UN "Model Regulation":** Void

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### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **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.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.
- **Training hints** Take care of good information, instruction and training for users.
- **Department issuing MSDS:** Environment protection department.
- **Abbreviations and acronyms:**  
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  
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)  
VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Asp. Tox. 1: Aspiration hazard, 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
- **Sources**  
This information is based on the current available data (suppliers of raw materials, chemistry maps, Annex VI)  
See also the internet site: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
- **\* Data compared to the previous version altered.**

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