

Material Safety Data Sheet

according to Regulation (EC) 1907/2006



Product name : JLM DIESEL FUEL SYSTEM CLEANER
Revision : 22.11.2010 **Version :** 1.0.0
Print date : 03-03-2011

01. Identification of the substance/preparation and of the company/undertaking

Product name

JLM DIESEL FUEL SYSTEM CLEANER

Manufacturer/Supplier

GMS Lubricants B.V.

Street/P.O.Box

Walruskoog 3-5

Country code/Postal code/Town/City

1822 BC Alkmaar

Telephone / Telefax

+31 (0)72 561 6464 / +31 (0)72 561 0114

Contact

Ian Humphreys (E-mail: Ihumphreys@gms.nl)

Emergency information

+31 (0)72 561 6464 (only at office hours 8:00 - 16:30)

02. Hazards identification

Hazard designation

Directive 67/548/EEC or 1999/45/EC

Risk of explosion if heated under confinement. · Flammable. · Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Limited evidence of a carcinogenic effect. · Harmful by inhalation and in contact with skin. · Irritating to respiratory system.

Classification : R 44 · R 10 · N ; R 51/53 · Carc. Cat.3 ; R 40 · Xn ; R 20/21 · Xn ; R 65 · Xi ; R 37

Regulation (EC) No 1272/2008 (GHS)

Flammable liquid and vapour. · May be fatal if swallowed and enters airways. · May cause respiratory irritation. · Toxic to aquatic life with long lasting effects.

Classification : Aquatic Chronic 2 ; H411 · Asp. Tox. 1 ; H304 · Acute Tox. 4 ; H312 · Acute Tox. 4 ; H332 · Flam. Liq. 3 ; H226 · STOT SE 3 ; H335

03. Composition/information on ingredients

Hazardous components

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC ; EC-No. : 265-199-0; CAS-No. : 64742-95-6

Percentage : 50 - 100 %

Classification 67/548/EEC : Xn ; R65

Classification 1272/2008 (GHS) : Asp. Tox. 1 ; H304

2-ETHYLHEXYL NITRATE ; EC-No. : 248-363-6; CAS-No. : 27247-96-7

Percentage : 25 - 50 %

Classification 67/548/EEC : R44 Xn ; R20/21

Classification 1272/2008 (GHS) : Acute Tox. 4 ; H312 Acute Tox. 4 ; H332

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC ; EC-No. : 265-198-5; CAS-No. : 64742-94-5

Percentage : 2,5 - 10 %

Classification 67/548/EEC : N ; R51/53 Xn ; R65 R67 R66

Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

NAPHTHALENE ; EC-No. : 202-049-5; CAS-No. : 91-20-3

Percentage : 1 - 2,5 %

Classification 67/548/EEC : N ; R50/53 Carc. Cat.3 ; R40 Xn ; R22

Classification 1272/2008 (GHS) : Carc. 2 ; H351 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

1,2,4-TRIMETHYLBENZENE ; EC-No. : 202-436-9; CAS-No. : 95-63-6

Percentage : 1 - 2,5 %

Classification 67/548/EEC : R10 N ; R51/53 Xn ; R20 Xi ; R36/37/38

Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

MESITYLENE ; EC-No. : 203-604-4; CAS-No. : 108-67-8

Percentage : < 1 %

Classification 67/548/EEC : R10 N ; R51/53 Xi ; R37

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Classification 1272/2008 (GHS) : Flam. Liq. 3 ; H226 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411
For the wording of the listed risk phrases refer to section 16.

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. For further information refer to "specifications about toxicology".

After inhalation

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Unconsciousness: lateral position - call a physician.

After skin contact

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

First-aid measures Do not induce vomiting. Rinse mouth with cold water. Keep at rest.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

In case of fire do not breathe fumes

Special protective equipment

Appropriate breathing apparatus may be required.

Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

07. Handling and storage

Information for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. No sparking tools should be used.

Requirements to be met by storerooms and containers

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking.

Storage class (VCI) : 3

08. Exposure controls/personal protection

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.

Components with critical values that require monitoring at the workplace (exposure limits)

2-ETHYLHEXYL NITRATE ; CAS-No. : 27247-96-7

Specification : TLV/TWA (D)
Value : 1 ppm / 8 h
Version date :

NAPHTHALENE ; CAS-No. : 91-20-3

Specification : Limit value (8 hours) (EC)
Value : 10 ppm / 50 mg/m³
Version date : 29-05-1991

1,2,4-TRIMETHYLBENZENE ; CAS-No. : 95-63-6

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 20 ppm / 100 mg/m³
Category : 2(II)
Remarks : Y
Version date : 02-07-2009

Specification : Limit value (8 hours) (EC)
Value : 20 ppm / 100 mg/m³
Version date : 08-06-2000

MESITYLENE ; CAS-No. : 108-67-8

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 20 ppm / 100 mg/m³
Category : 2(II)
Remarks : Y
Version date : 02-07-2009

Specification : Limit value (8 hours) (EC)
Value : 20 ppm / 100 mg/m³
Version date : 08-06-2000

Personal protective equipment

Respiratory protection

If workplace limits are exceeded, a gas mask approved for this purpose must be worn. Fresh air masks are recommended, or combination filters A2-P2 for works of short duration.

Hand protection

Use protective gloves.

Eye protection

Use tightly fitting safety glasses.

09. Physical and chemical properties

Relevant safety data

| | | | | |
|--------------------------------|--------------|-----|------|-------------------|
| Physical state : | | | | liquid |
| Odour : | | | | Characteristic. |
| Colour : | | | | Red. |
| Boiling point / range : | (1013 hPa) | | | no data available |
| Flash point : | | ca. | 41 | °C |
| Vapour pressure : | (50 °C) | < | 1000 | hPa |
| Density : | (20 °C) | ca. | 0,91 | g/cm ³ |

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Solubility in water : (20 °C) insoluble
Viscosity : (20 °C) no data available

10. Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

There are no data available on the preparation itself. The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC). Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Skin and eye contact: frequent and long lasting contact may cause irritation and skin inflammation. Eye contact: irritation.

12. Ecological information

Do not empty into waters or drains.

13. Disposal considerations

In accordance with local official regulations.

14. Transport information

Land transport ADR/RID

Classification

| | | | |
|--------------------|------|------------------------------|----|
| Class : | 3 | Kemlercode : | 30 |
| UN number : | 3295 | Classification-Code : | F1 |

LQ 7 · E 1 · Tunnel restriction code : D/E

Proper shipping name

HYDROCARBONS, LIQUID, N.O.S.

Packaging

Packaging group : III

Label :



Remarks

Tremcards : C3_F1_A

Maritime transport IMDG/GGVSea

Classification

| | | | |
|--------------------|------|-----------------------|-----------|
| IMDG-Code : | 3 | EmS number : | F-E / S-D |
| UN number : | 3295 | Marine Poll. : | P |

LQ 5 I · E 1

Proper shipping name

HYDROCARBONS, LIQUID, N.O.S. (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC · 2-ETHYLHEXYL NITRATE · NAPHTHALENE)

Packaging

Packaging group : III

Label :



Air transport ICAO-TI and IATA-DGR

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Classification

Class : 3
UN number : 3295
E 1

Proper shipping name

HYDROCARBONS, LIQUID, N.O.S.

Packaging

Packaging group : III

Label :



15. Regulatory information

Labelling (67/548/EEC or 1999/45/EC)

Danger symbol and danger designation



Xn ; Harmful



N ; Dangerous for the environment

R-phrases

44 Risk of explosion if heated under confinement.
10 Flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
40 Limited evidence of a carcinogenic effect.
20/21 Harmful by inhalation and in contact with skin.
65 Harmful: may cause lung damage if swallowed.
37 Irritating to respiratory system.

S-phrases

29/35 Do not empty into drains; dispose of this material and its container in a safe way.
57 Use appropriate container to avoid environmental contamination.
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
36/37 Wear suitable protective clothing and gloves.
9 Keep container in a well-ventilated place.

Regulation (EC) No 1272/2008 (GHS)

Classification

Hazard classes and hazard categories

Flam. Liq. 3 · Acute Tox. 4 (dermal) · Acute Tox. 4 (inhalation) · STOT SE 3 · Asp. Tox. 1 · Aquatic Chronic 2

Labelling

Hazard pictograms



Flame (GHS02) · Health hazard (GHS08) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P310 Immediately call a POISON CENTER or doctor/physician.
P322 Specific measures (see ... on this label).
P403/235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to an appropriate incinerating plant or depository or recycling.

Supplemental hazard information

EUH044 Risk of explosion if heated under confinement.

National regulatory information

Emission control act ("TA-Luft")

Sum organic substances class I : < 5 %

Water pollution classification

Class : 2 according VwVwS

16. Other information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The user is responsible for the observance of all required statutory provisions.

Further information

R-Phrases of components

10 Flammable.
20 Harmful by inhalation.
20/21 Harmful by inhalation and in contact with skin.
22 Harmful if swallowed.
36/37/38 Irritating to eyes, respiratory system and skin.
37 Irritating to respiratory system.
40 Limited evidence of a carcinogenic effect.
44 Risk of explosion if heated under confinement.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

GHS Hazard statements of components

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.