



# Safety Data Sheet

According to Regulation (EC)  
No. 1907/2006 and (EC) no. 435/2010

Pagina 1 van 12  
Revision: no. 1  
Revision date: 15-7-2015  
Supersede: no. 0  
Supersedes date: 29-7-2013

## JF-ML-300

### 1. Identification of the substance/mixture and of the company/undertaking

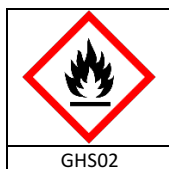
- 1.1. *Product identifier*  
Product form: Mixture  
Trade name: Multi Lube 300  
Chemical characterization: Aerosol with oil
- 1.2. *Relevant identified uses of the substance or mixture and uses advised against*  
Main use category: Aerosol, product for industrial use only.
- 1.3. *Details of the supplier of the safety data sheet*  
Manufacturer: Jefo Ship Supply  
De Dissel 12  
8332 JH Steenwijk  
Nederland  
Tel: +31 (0)6 83 70 12 19  
E-mail: [info@jefoshipsupply.nl](mailto:info@jefoshipsupply.nl)  
Website: [www.jefoshipsupply.nl](http://www.jefoshipsupply.nl)
- 1.4. *Emergency telephone number*  
Emergency number: +31 (0)592 40 77 97  
This number is serviced during office hours.

### 2. Hazards identification

- 2.1. *Classification of the substance or mixture*  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Aerosol 1 H222  
Aerosol 1 H229  
EUH066

Full text of H-phrases: see section 16

- 2.2. *Label elements*  
Labeling according to Regulation (EC) No. 1272/2008 [CLP]  
Hazard pictograms (CLP)



CLP Signal word: Danger

Hazard statements (CLP)  
H222 Extremely flammable aerosol.



## JF-ML-300

H229 Pressurised container: May burst if heated.  
EUH066 Repeated exposure may cause skin dryness or cracking

### Precautionary statements (CLP)

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  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 2.3 Other hazards

No additional information available.

## 3. Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propane/butane mixture	EC-No: 270-9909	30-60	Flam. Gas 1, H220
Base oil; Distillates (petroleum), solvent-dewaxed heavy paraffinic	CAS-no: 64742-65-0 EC-no: 265-169-7 REACH: 01-2119471299-27	25-50	Not classified. [Note L]
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC-nr: 918-481-9 REACH: 01-2119457273-39	10-20	Asp. Tox. 1, H304 EUH066
Phosphorodithioic acid, mixed O, O-Bis (2-ethylhexyl and iso-bu) esters, zinc salt with oil.	CAS-no: 68442-22-8 EC-no: 270-478-5 REACH: 01-2119948548-22	0-0,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
NAPHTALENESULFONIC ACID, DINOLYL-, CALCIUM SALT	CAS-nr: 57855-77-3 EC-nr: 939-717-7 REACH: 01-2119980985-16-0000	0-0,5	Skin Irrit. 2 H315 Eye irrit. 2; H319
Zinc oxide	CAS-no: 1314-13-2 EC-no: 215-222-5	0-0,5	Aquatic Chronic 1, H410 Aquatic Acute 1, H400



## JF-ML-300

	REACH: 01-2119463881-32-0000		
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The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This Note applies only to certain complex oil-derived substances in Part 3.

Full text of H-phrases: see section 16.

### 4. First aid measures

#### 4.1. Description of first aid measures

First-aid measures general: In all cases of doubt, or when symptoms persist, seek medical attention. After adequate first aid, no further treatment is required unless symptoms reappear.

After inhalation: Take victim to fresh air, in a quiet place and if necessary take medical advice. If unconscious, place in the recovery position and seek medical advice.

After skin contact: Wash off immediately with soap and plenty of water removing at the same time all contaminated clothes. Wash clothing before re-using. Do not remove clothing if it sticks to the skin.

After eye contact: Rinse immediately with plenty of water, also under the eyelids. First-aid measures after ingestion: Rinse mouth out with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek medical advice (show the label where possible).

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

After inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

After skin contact: May stain the skin. May cause slight irritation to the skin.

After eye contact: May stain the eyes. May cause eye irritation.

After ingestion: May cause slight irritation.

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

No additional information available.



## JF-ML-300

### 5. Firefighting measures

- 5.1. *Extinguishing media*  
Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
- 5.2. *Special hazards arising from the substance or mixture*  
Fire hazard: No information available on this specific product, however by analogy, the product is considered to be: No fire hazard.  
  
Explosion hazard: Product does not present an explosion hazard.  
  
Hazardous decomposition products in case of fire: Release of harmful/irritant gases/vapours.
- 5.3. *Advice for firefighters*  
Firefighting instructions: Exercise caution when fighting any chemical fire. Cool tanks/drums with water spray/remove them into safety.  
  
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.  
  
Other information: Prevent fire-fighting water from entering environment.

### 6. Accidental release measures

- 6.1. *Personal precautions, protective equipment and emergency procedures*  
General measures: Avoid contact with skin, eyes and clothing. Avoid breathing dust, mist or spray. Do not eat, drink or smoke when using this product.
- 6.1.1. *For non-emergency personnel*  
Protective equipment: Wear recommended personal protective equipment. Refer to chapter 8.  
  
Emergency procedures: Provide adequate ventilation. Wear suitable respiratory equipment in case of insufficient ventilation. Keep unprotected persons from entering.
- 6.1.2. *For emergency responders*  
Protective equipment: Wear recommended personal protective equipment. Refer to chapter 8.



## JF-ML-300

Emergency procedures: Provide adequate ventilation. Wear suitable respiratory equipment in case of insufficient ventilation. Keep unprotected persons from entering.

6.2. *Environmental precautions*

Prevent entry to sewers and public waters.

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

Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Wash away remainder with plenty of water.

6.4. *Reference to other sections*

See section(s): 8, 13.

### 7. Handling and storage

7.1. *Precautions for safe handling*

Precautions for safe handling: Keep away from sources of ignition - No smoking. Avoid all unnecessary exposure.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Do not drink, eat or smoke in the workplace.

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

Storage conditions: Keep away from heat. Protect from freezing. Keep out of the reach of children.

Prohibitions on mixed storage: Keep away from food, drink and animal feeding stuffs.

Storage area: Store in dry, cool, well-ventilated area. Keep container tightly closed.

Packaging materials: Store in original container.

7.3. *Specific end use(s)*

No additional information available.

### 8. Exposure controls/personal protection

8.1. *Control parameters*

Name	Productidentification	%
Propane/butane mixture	EC-No: 270-9909	30-60

DNELs  
No data available.



**Safety Data Sheet**  
According to Regulation (EC)  
No. 1907/2006 and (EC) no. 435/2010

Pagina 6 van 12  
Revision: no. 1  
Revision date: 15-7-2015  
Supersede: no. 0  
Supersedes date: 29-7-2013

## JF-ML-300

PNECs

No data available.

Name	Productidentification	%
Base oil; Distillates (petroleum), solvent-dewaxed heavy paraffinic	CAS-no: 64742-65-0 EC-no: 265-169-7 REACH: 01-2119471299-27	25-50
DNELs No data available.		
PNECs No data available.		

Name	Productidentification	%
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC-nr: 918-481-9 REACH: 01-2119457273-39	10-20
DNELs Dermal: Long-term - systemic effects: 11,4 mg/kg Inhalation: Long-term - systemic effects: 8,05 mg/m <sup>3</sup>		
PNECs No data available.		

Name	Productidentification	%
Phosphorodithioic acid, mixed O, O-Bis (2-ethylhexyl and iso-bu) esters, zinc salt with oil.	CAS-no: 68442-22-8 EC-no: 270-478-5 REACH: 01-2119948548-22	0-0,5
DNELs Dermal: Long-term - systemic effects: 11,4 mg/kg Inhalation: Long-term - systemic effects: 8,05 mg/m <sup>3</sup>		
PNECs No data available.		

Naam	Productidentificatie	%
NAPHTALENESULFONIC ACID, DINOLYL-, CALCIUM SALT	CAS-nr: 57855-77-3 EC-nr: 939-717-7 REACH: 01-2119980985-16-0000	0-0,5
DNELs Dermal: Long-term - systemic effects: 0,00032 mg/kg/dag Inhalation: Long-term - systemic effects: 2,23 mg/m <sup>3</sup>		



# Safety Data Sheet

According to Regulation (EC)  
No. 1907/2006 and (EC) no. 435/2010

Pagina 7 van 12  
Revision: no. 1  
Revision date: 15-7-2015  
Supersede: no. 0  
Supersedes date: 29-7-2013

## JF-ML-300

PNECs  
Soil: 0,936 µg/g  
Water: 0,469 µg/g Seawater deposition  
Water: 2,7 µg/l Intermittent use  
Water: 10000 µg/l Sewage treatment plant  
Water: 0,27 µg/l Fresh water  
Water: 0,027 µg/l Sea  
Water: 0,00469 mg/g Freshwater deposition

Name	Productidentification	%
Zinc oxide	CAS-no: 1314-13-2 EC-no: 215-222-5 REACH: 01-2119463881-32-0000	0-0,5
DNELs No data available.		
PNECs No data available.		

### 8.2. Exposure controls

Appropriate engineering controls:	Ventilate area. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment:	Gloves. Protective clothing. Safety glasses. High gas/vapour concentration: gas mask.
Hand protection:	Chemical resistant gloves (according to European standard NF EN 374 or equivalent), e.g. PVC gloves - Nitrile-rubber protective gloves. Since the product consists of several substances, it is not possible to estimate the durability of the glove material beforehand and it therefore needs to be tested before use.
Eye protection:	Wear tight fitting safety glasses or face shield.
Skin and body protection:	Wear suitable protective clothing.
Respiratory protection:	No respiratory protection needed under normal use conditions. High gas/vapour concentration: gas mask.
Environmental exposure controls:	Avoid release to the environment.
Other information:	Keep away from food, drink and animal feeding stuffs.



## JF-ML-300

### 9. Physical and chemical properties

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

Physical state	Aerosol, active substance: liquid
Appearance	Liquid
Colour	Yellow
Odour	petroleum-like odour.
Odour threshold	No data available
pH	No data available
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	Substance: >61°C
Auto-ignition temperature	Not self-igniting
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	Propane/butane mixture: 300-800kPa (20°C)
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	Substance: 0,79-0,89/cm <sup>3</sup> (20 °C) Propane/butane mixture: 0,54 g/cm <sup>3</sup> (liquid at 15 °C)
Solubility	Water: Insoluble
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Product does not present an explosion hazard.
Oxidising properties	No data available
Explosive limits	Propane/butane mixture, laagste: 1,5 vol.% Propane/butane mixture, hoogste: 9,5 vol.%

#### 9.2. Other information

No additional information available.

### 10. Stability and reactivity

#### 10.1. Reactivity

No additional information available.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.





## JF-ML-300

- 10.3. *Possibility of hazardous reactions*  
No dangerous reactions known.
- 10.4. *Conditions to avoid*  
Keep away from open flames, hot surfaces and sources of ignition.
- 10.5. *Incompatible materials*  
Strong acids. Oxidizing agent.
- 10.6. *Hazardous decomposition products*  
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, fumes, nitrogen oxides (NOx).

### 11. Toxicological information

- 11.1. *Information on toxicological effects*  
Acute toxicity: Not classified  
The product has not been tested  
Estimated on the basis of the constituents.

Multi Lube 300 – Aerosol
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LD50 oral rat: >5000mg/kg
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Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	No sensitizing effect known
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure):	Not classified
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration hazard:	Not classified



## JF-ML-300

Other information: No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

### 12. Ecological information

- 12.1. *Toxicity*  
Ecology - general: Do not allow into drains or water courses.
- 12.2. *Persistence and degradability*  
No additional information available
- 12.3. *Bioaccumulative potential*  
No additional information available
- 12.4. *Mobility in soil*  
No additional information available
- 12.5. *Results of PBT and vPvB assessment*  
No additional information available
- 12.6. *Other adverse effects*  
No additional information available

### 13. Disposal considerations

- 13.1. *Waste treatment methods*  
Regional legislation (waste): Disposal must be done according to official regulations.
- Sewage disposal  
recommendations: Do not discharge into drains.
- Waste disposal  
recommendations: If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

### 14. Transport information

14.1 – 14.6

General Statements	
UN number	1950
<b>Transport by road/by rail (ADR/RID)</b>	
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packaging group	-



# Safety Data Sheet

According to Regulation (EC)  
No. 1907/2006 and (EC) no. 435/2010

Pagina 11 van 12  
Revision: no. 1  
Revision date: 15-7-2015  
Supersede: no. 0  
Supersedes date: 29-7-2013

## JF-ML-300

Classification code	5F
LQ (ADR 2013)	1L
LQ (ADR 2009)	2
Environmental hazards	no
Tunnel restriction code	D
<b>Transport by sea (IMDG-code)</b>	
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packaging group	-
EmS	F-D, S-U
Marine Pollutant	No
Environmental hazards	No
<b>Transport by air (IATA)</b>	
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Packaging group	-
Environmental hazards	not applicable

14.7 *Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code*  
Not applicable

### 15. Regulatory information

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

EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

Germany

Water hazard class (WGK): 1 – low hazard to waters

WGK remark: (estimated value)

15.2. *Chemical safety assessment*

No chemical safety assessment has been carried out.

### 16. Other information

Indication of changes:

Identification of the substance/mixture and of the company/undertaking. Hazards identification. Composition/information on ingredients. First aid measures. Firefighting measures. Accidental release measures. Handling and storage. Exposure controls/personal protection. Physical and chemical properties. Stability and reactivity. Toxicological information. Ecological information. Disposal considerations. Transport information. Regulatory information. Other information.



# Safety Data Sheet

According to Regulation (EC)  
No. 1907/2006 and (EC) no. 435/2010

Pagina 12 van 12  
Revision: no. 1  
Revision date: 15-7-2015  
Supersede: no. 0  
Supersedes date: 29-7-  
2013

## JF-ML-300

Aerosol 1	Aerosols, Category 1
H220	Extremely flammable gas.
EUH066	Repeated exposure may cause skin dryness or cracking

Data sources:

Echa.europa.eu  
Manufacturer/supplier  
Richtsnoer voor etikettering en verpakking in overeenstemming met  
Verordening (EG) nr. 1272/2008  
Regulation (EC) no. 1272/2008

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*