



# JF-GG-408

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

### 1.1. Product identifier

Product form: Mixture  
Trade name: Gear Grease 408  
Chemical characterization: Aerosol with grease

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

Main use category: Grease, 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]

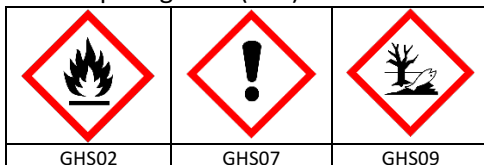
Aerosol 1 H222  
Aerosol 1 H229  
STOT SE 3 H336  
Aquatic Chronic 2 H411  
EUH066

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)



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H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long-lasting effects.
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
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P312	Call a POISON CENTER or a doctor if you feel unwell
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
Pentane	CAS-No: 109-66-0 EC-No: 203-692-4	20-40	Aquatic Chronic 2, H411 Asp. Tox. 1, H304 STOT SE 3, H336 Flam. Liq. 2, H225 EUH066

Full text of the H- and EUH-phrases if mentioned: 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.



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- 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.

### 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.



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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.

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



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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	Product identifier	%
Propane/butane mixture	EC-No: 270-9909	30-60
DNEs No data available.		
PNECs No data available.		

Name	Product identifier	%
Pentane	CAS-No: 109-66-0 EC-No: 203-692-4	20-40
DNEs Dermal: Long term - systematic: 214 mg / kg (General Audience), 432 mg / kg (Worker) Inhalation: Long term - systematic 643 mg / m <sup>3</sup> (General Audience), 3000 mg / m <sup>3</sup> (Worker) Oral: Long term - systematic: 214 mg / kg		
PNECs Soil: 0,55 mg / kg Water: 1,2 mg / kg Sediment Water: 3600 mg / L Kläranlage Water: 230 mg / l Freshwater Water: 230 mg / l Marine Water: 880 mg / l Intermittent release		

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.



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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.

### 9. Physical and chemical properties

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

Physical state	Aerosol, active substance: liquid
Appearance	Grease
Colour	Brown
Odour	Characteristic.
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	No data available
Auto-ignition temperature	Not self-igniting
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	Propane/butane mixture: 300-800 kPa (20°C)
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	Substance: 0,85-0,95 g/cm <sup>3</sup> (20 °C)



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	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.
- 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.

Gear Grease 408 – Aerosol	
LC50 inhalation mouse	295 mg/l

Skin corrosion/irritation: Repeated exposure may cause skin dryness or cracking



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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):	May cause drowsiness or dizziness.
Aspiration hazard:	May be fatal if swallowed and enters airways
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





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### 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	-
Classification code	5F
LQ (ADR 2013)	1L
LQ (ADR 2009)	2
Environmental hazards	environmentally hazardous
Tunnel restriction code	D
<b>Transport by sea (IMDG-code)</b>	
UN proper shipping name	AEROSOLS (PENTANES)
Transport hazard class(es)	2.1
Packaging group	-
EmS	F-D, S-U
Marine Pollutant	yes
Environmental hazards	environmentally hazardous
<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



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Contains no REACH Annex XIV substances

National regulations

Germany

Water hazard class (WGK): 2 - 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.

Aerosol 1	Aerosols, Category 1
STOT SE 3	Specific target organ, Category 3
Aquatic Chronic 2	Chronic danger to aquatic environment, Category 2
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long-lasting effects.

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.*