

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 30.09.2014

Version number 4

Revision: 30.09.2014

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

- **1.1 Product identifier**
- **Trade name:** Viking MotoPlus
- **Article number:**  
0781 989 5...  
7009 871 0349
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Hydrocarbon mixture to be used as special fuel.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
VIKING GmbH  
Hans Peter Stihl-Straße 5  
A-6336 Langkampfen/Kufstein  
Tel: +43(0)5372-6972-298  
Fax: +43(0)5372-61183-298  
Email: information@viking.at
- **Informing department:**  
Produktmanagement Forsttechnik  
Tel: +49(0)7151-26-3237  
Fax: +49(0)7151-26-83237
- **1.4 Emergency telephone number:**  
Giftnotruf Berlin +49 30 30686 790  
Auskünfte zum Transport: Tel.: +49-621-60-43333 Fax: +49-621-60-92664

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 1      H224 Extremely flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 30.09.2014

Version number 4

Revision: 30.09.2014

**Trade name: Viking MotoPlus**

(Contd. of page 1)



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

STOT SE 3

H336 May cause drowsiness or dizziness.

### Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.



Xi; Irritant

R38: Irritating to skin.



F+; Extremely flammable

R12: Extremely flammable.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

### Information concerning particular hazards for human and environment:

Has a narcotising effect.

### Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### 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



GHS02



GHS07



GHS08



GHS09

#### Signal word Danger

#### Hazard-determining components of labelling:

Naphtha (petroleum), full-range alkylate, butane-contg.

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated isopentane

#### Hazard statements

H224 Extremely flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic 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.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 30.09.2014

Version number 4

Revision: 30.09.2014

**Trade name: Viking MotoPlus**

(Contd. of page 2)

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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:** Hydrocarbon mixture to be used as special fuel.

- **Dangerous components:**

CAS: 68527-27-5 EINECS: 271-267-0 Reg.nr.: 01-2119471477-29	Naphtha (petroleum), full-range alkylate, butane-contg. Xn R65;  Xi R38;  F+ R12;  N R51/53 R67 Flam. Liq. 1, H224;  Asp. Tox. 1, H304; Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; STOT SE 3, H336	50-100%
CAS: 93685-81-5 EINECS: 297-629-8 Reg.nr.: 01-2119490725-29-00	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Xn R65 R53-66 Asp. Tox. 1, H304;  Aquatic Chronic 4, H413	10-25%
CAS: 78-78-4 EINECS: 201-142-8 Reg.nr.: 01-2119475602-38-0001	isopentane Xn R65;  F+ R12;  N R51/53 R66-67 Flam. Liq. 1, H224;  Asp. Tox. 1, H304; Aquatic Chronic 2, H411;  STOT SE 3, H336	10-25%

- **Additional information**

The product fulfills the Swedish standard SS 155461D:

benzene &lt; 0,05 Vol-%, n-hexane &lt; 0,5 Vol-%, aromatic compounds &lt; 0,5 Vol-%, olefins &lt; 0,5 Vol-%.

For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact**  
Keep eye lids open and rinse them amply with clean running water for at least 15 minutes.  
In case of persistent symptoms consult doctor.
- **After swallowing**  
Do not induce vomiting in order to prevent an invasion into the lungs.  
Instantly call for doctor.

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 30.09.2014

Version number 4

Revision: 30.09.2014

**Trade name: Viking MotoPlus**

(Contd. of page 3)

- **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**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Disposal work has to be carried out with breathing protection and explosion-proof equipment.
- **Additional information** Use water to keep fire exposed containers cool.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Keep away from ignition sources  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
If material reaches soil inform authorities responsible for such cases.  
Do not allow to enter drainage system, 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).  
Dispose of 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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed containers.  
Keep away from heat and direct sunlight.  
Carry out filling operations only at sites with extractors available.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle container with care.
- **Information about protection against explosions and fires:**  
Flammable mixtures may be formed in empty containers.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class** 3 (Flammable liquids)

(Contd. on page 5)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 30.09.2014

Version number 4

Revision: 30.09.2014

Trade name: Viking MotoPlus

(Contd. of page 4)

- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

#### 78-78-4 isopentane

WEL	Long-term value: 1800 mg/m <sup>3</sup> , 600 ppm
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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX

- **Protection of hands:**

Protective gloves and protective skin cream.

After use of gloves apply skin-cleaning agents and skin cosmetics.

- **Material of gloves**

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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.

- **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:** Safety glasses recommended during refilling.

- **Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
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Colour:	Blue
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Odour:	Characteristic
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- **Change in condition**

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** < 35 - 180 °C

Flash point:	< -18 °C
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Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
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(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 30.09.2014

Version number 4

Revision: 30.09.2014

**Trade name: Viking MotoPlus**

(Contd. of page 5)

- |   |           |
|---|-----------|
| <b>· Critical values for explosion:</b>   |           |
| <b>Lower:</b>   | 1.1 Vol % |
| <b>Upper:</b>   | 6.0 Vol % |
| <b>· Vapour pressure at 50 °C:</b> < 95 kPa                                       |           |
| <b>· Density at 20 °C</b> 0.7 g/cm <sup>3</sup>                                   |           |
| <b>· Solubility in / Miscibility with Water:</b> Not miscible or difficult to mix |           |
| <b>· Solvent content:</b>   |           |
| <b>Organic solvents:</b>  | 0.0 %     |
| <b>· VOC EU</b> 0.0 %   |           |
| <b>· 9.2 Other information</b> No further relevant information available.         |           |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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:**  
None in case of intended use and storage in compliance with instructions.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity:**
- |   |          |                 |
|---|----------|-----------------|
| <b>· LD/LC50 values that are relevant for classification:</b> |          |                 |
| <b>78-78-4 isopentane</b>                                     |          |                 |
| Inhalative  | LC50/4 h | 1280 mg/l (rat) |
- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** No irritant effect.
  - **Sensitisation:** No sensitizing effect known.
  - **Additional toxicological information:**  
Smallest amounts which can get into the lungs by means of swallowing or subsequent vomiting can cause a pulmonary oedema or pneumonia.  
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

### SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:**
- |                           |                          |
|---------------------------|--------------------------|
| <b>78-78-4 isopentane</b> |                          |
| EC50 (48 h)               | 2.3 mg/l (daphnia magna) |
| LC50/96 h                 | 3.1 mg/l (Reg)           |

(Contd. on page 7)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 30.09.2014

Version number 4

Revision: 30.09.2014

Trade name: Viking MotoPlus

(Contd. of page 6)

- **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 2 (German Regulation) (Self-assessment): hazardous for water.  
 Do not allow product to reach ground water, water bodies or sewage system.  
 Danger to drinking water if even small quantities leak into soil.  
 Allocation to ID No. 820 petrol, not identified as carcinogenic (R45).
- **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 of together with household garbage. Do not allow product to reach sewage system.  
 The product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility.  
 The waste code numbers mentioned are recommendations based on the probable use of the product.

#### · **European waste catalogue**

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 07 00	wastes of liquid fuels
13 07 02	petrol
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10	packaging containing residues of or contaminated by dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1203
- **14.2 UN proper shipping name**
- **ADR** 1203 PETROL, ENVIRONMENTALLY HAZARDOUS
- **IMDG** MOTOR SPIRIT, MARINE POLLUTANT
- **IATA** MOTOR SPIRIT

(Contd. on page 8)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 30.09.2014

Version number 4

Revision: 30.09.2014

Trade name: Viking MotoPlus

(Contd. of page 7)

### · 14.3 Transport hazard class(es)

#### · ADR, IMDG



· Class 3 Flammable liquids.  
· Label 3

#### · IATA



· Class 3 Flammable liquids.  
· Label 3

### · 14.4 Packing group

· ADR, IMDG, IATA II

### · 14.5 Environmental hazards:

· Marine pollutant: Symbol (fish and tree)  
· Special marking (ADR): Symbol (fish and tree)

### · 14.6 Special precautions for user

· Kemler Number: Warning: Flammable liquids.  
· EMS Number: 33  
F-E, S-E

### · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### · Transport/Additional information:

#### · ADR

· Limited quantities (LQ) 1L  
· Excepted quantities (EQ) Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

#### · Transport category

· Tunnel restriction code 2

#### · Remarks:

D/E  
The Packing Group II does not derive from the physical data of preparation, but on the basis of the allocation to UN 1203 in conjunction with the special provisions 243 and 534.

#### · IMDG

· Limited quantities (LQ) 1L  
· Excepted quantities (EQ) Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

### · UN "Model Regulation":

UN1203, PETROL, ENVIRONMENTALLY HAZARDOUS, 3, II

GB

(Contd. on page 9)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 30.09.2014

Version number 4

Revision: 30.09.2014

Trade name: **Viking MotoPlus**

(Contd. of page 8)

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

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.

- **Relevant phrases**

H224 Extremely flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

R12 Extremely flammable.

R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

- **Department issuing data specification sheet:**

The safety data sheets were drawn up in cooperation with the Umweltkanzlei Dr.Rhein Beratungs- und Prüfgesellschaft mbH, Phone: +49 5066 900990.

- **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 1: Flammable liquids, Hazard Category 1

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

- **\* Data compared to the previous version altered.**