

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

Printing date 05.01.2011





Version number 1

Revision: 26.01.2009

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

- **Product identifier**
- **Trade name:** *MotoMix*
- **Article number:** 0781 999 6...
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Hydrocarbon mixture to be used as special fuel.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
ANDREAS STIHL AG & Co.KG
Badstr. 115
D-71336 Waiblingen
Tel: +49(0)7151-26-3237
Fax: +49(0)7151-26-8-3237
- **Informing department:**
Produktmanagement Forsttechnik
Tel: +49(0)7151-26-3237
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- **Emergency telephone number:**
Tel: +49-621-60-43333
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2 Hazards identification

- **Classification of the substance or mixture**
 - **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 narcotizing 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.
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- **Label elements**
 - **Labelling according to EU guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

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· **Code letter and hazard designation of product:**



Xn Harmful
F+ Extremely flammable
N Dangerous for the environment

· **Hazard-determining components of labelling:**

Naphtha (petroleum), full-range alkylate
2,2,4,6,6-pentamethylheptane
isopentane

· **Risk phrases:**

12 Extremely flammable.
38 Irritating to skin.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
33 Take precautionary measures against static discharges.
60 This material and its container must be disposed of as hazardous waste.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.
64 If swallowed, rinse mouth with water (only if the person is conscious).

· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Special fuel for two-stroke engines and 4-MIX-engines.

· **Dangerous components:**

CAS: 64741-64-6 EINECS: 265-066-7	Naphtha (petroleum), full-range alkylate T Carc. Cat. 2, Muta. Cat. 2 R45-46; Xn R65 Carc. 1B, H350; Asp. Tox. 1, H304	50-100%
CAS: 13475-82-6	2,2,4,6,6-pentamethylheptane Xn R65 R10-66 Flam. Liq. 3, H226; Asp. Tox. 1, H304	10-25%
CAS: 78-78-4 EINECS: 201-142-8	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%

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· Additional information

The product fulfills the Swedish standard SS 155461D:

benzene < 0,05 Vol-%, n-hexane < 0,5 Vol-%, aromatic compounds < 0,5 Vol-%, olefins < 0,5 Vol-%.

4 First aid measures

· 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.

Seek immediate medical advice.

· **After swallowing**

Do not induce vomiting in order to prevent an invasion into the lungs.

Instantly call for doctor.

5 Firefighting measures

· 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.

· **Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.

· 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.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Prevent material from reaching sewage system, holes and cellars.

If material reaches soil inform authorities responsible for such cases.

Do not allow to enter drainage system, surface or ground water.

· 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.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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7 Handling and storage

- **Handling**
- **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.
- **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.

8 Exposure controls/personal protection

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

78-78-4 isopentane

WEL	Long-term value: 1800 mg/m ³ , 600 ppm
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- **Additional information:** The lists that were valid during the compilation were used as basis.
- **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:**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Protection of hands:**
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.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **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.
- **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:** Tightly sealed safety glasses.

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

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form:	Fluid
Colour:	Green
Odour:	Characteristic

- **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	< 35 - 180°C

- **Flash point:** < -18°C

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

- **Critical values for explosion:**

Lower:	1.1 Vol %
Upper:	6.0 Vol %

- **Vapour pressure at 50°C:** < 95 kPa

- **Density at 20°C** 0.7 g/cm³

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

- **Solvent content:**

Organic solvents:	0.0 %
Water:	0.0 %

10 Stability and reactivity

- **Reactivity**

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Possibility of hazardous reactions** No dangerous reactions known

- **Hazardous decomposition products:**

None in case of intended use and storage in compliance with instructions.

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** No irritant effect.

- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

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*Harmful**Irritant**Dangerous to the environment**Smallest amounts which can get into the lungs by means of swallowing or subsequent vomiting can cause a pulmonary oedema or pneumonia.*

12 Ecological information

- **Toxicity**

- **Acquatic toxicity:** 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).

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

13 Disposal considerations

- **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)
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13 07 00	wastes of liquid fuels
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13 07 02	petrol
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15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
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15 01 00	packaging (including separately collected municipal packaging waste)
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15 01 10	packaging containing residues of or contaminated by dangerous substances
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- **Uncleaned packagings:**

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

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID-GGVSE Class:** 3 (F1) Flammable liquids.

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- **Kemler Number:** 33
- **UN-Number:** 1203
- **Packaging group:** II
- **Label** 3
- **Special marking:** Symbol (fish and tree)
- **UN proper shipping name:** 1203 PETROL
- **Tunnel restriction code** D1E
- **Remarks:** 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.

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1203
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Correct technical name:** PETROL
- **Remarks:** 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.

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1203
- **Label** 3
- **Packaging group:** II
- **Correct technical name:** PETROL
- **Remarks:** 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.

- **Special precautions for user** Warning: Flammable liquids.

15 Regulatory information

- **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.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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.*

H226 *Flammable liquid and vapour.*

H304 *May be fatal if swallowed and enters airways.*

H336 *May cause drowsiness or dizziness.*

H350 *May cause cancer.*

H411 *Toxic to aquatic life with long lasting effects.*

R10 *Flammable.*

R12 *Extremely flammable.*

R45 *May cause cancer.*

R46 *May cause heritable genetic damage.*

R51/53 *Toxic to aquatic organisms, 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, Phone: +49(0)5066-900990 and the Dekra Umwelt GmbH, Phone: +49(0)511-96355-0.

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