

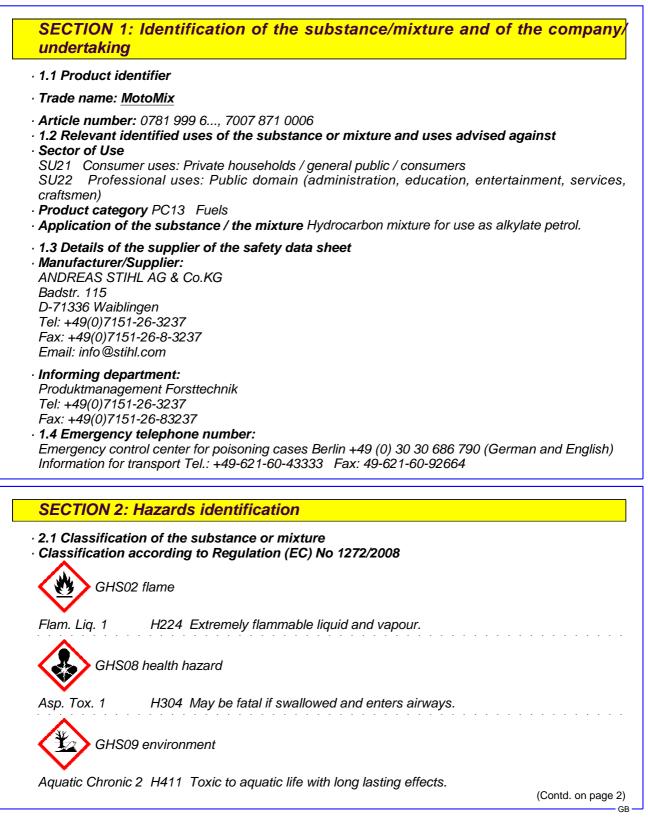
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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.10.2016

Version number 5

Revision: 20.10.2016



Safety data sheet

according to 1907/2006/EC, Article 31 Version number 5 Revision: 20.10.2016 Printing date 20.10.2016 Trade name: MotoMix (Contd. of page 1) GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. · 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. isopentane 2,2,4,6,6-pentamethylheptane · 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 If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokina. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. P331 P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. 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: Special fuel for two-stroke engines and 4-MIX-engines.
- · Dangerous components:

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	CAS: 68527-27-5 EINECS: 271-267-0	Naphtha (petroleum), full-range alkylate,butane- contg.	50-100%
	Reg.nr.: 01-2119471477-29	 Flam. Liq. 1, H224; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 	
	CAS: 78-78-4	isopentane	10-<25%
	EINECS: 201-142-8	🚸 Flam. Liq. 1, H224; 🚸 Asp. Tox. 1, H304;	
	Reg.nr.: 01-2119475602-38-0001	Aquatic Chronic 2, H411; 🚯 STOT SE 3, H336	
	CAS: 13475-82-6	2,2,4,6,6-pentamethylheptane	10-<25%
	EINECS: 236-757-0 Reg.nr.: 01-2119490725-29	Flam. Liq. 3, H226; Chronic 4, H413	
_			

· Additional information

The product fulfils the Swedish standard SS 155461D (CH: SN 181163): Benzene < 0.05 percentage by volume, n-hexane < 0.5 percentage by volume, aromatics < 0.5% percentage by volume, olefins <0.5 percentage by volume. For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• General information Instantly remove any clothing soiled by the product.

After inhalation

Supply fresh air; consult doctor in case of symptoms.

In case of unconsciousness place patient stably in side position for transportation.

· 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. Call a doctor immediately.

- **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

CO2, extinguishing powder or water jet. Fight larger fire with 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.

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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: Do not allow product to reach sewage system or water bodies. Prevent material from reaching sewage system, holes and cellars. Inform respective authorities in case product reaches water or sewage system.
 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.
 See Section 13 for information on disposal.

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: Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight.
- · Storage class 3
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:

78-78-4 isopentane

WEL Long-term value: 1800 mg/m³, 600 ppm

· DNELs

68527-27-5 Naphtha (petroleum), full-range alkylate,butane-contg.

Inhalative Worker - Long term - Local effects

Consumer - Long term - Local effects

840 mg/m³ 180 mg/m³

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	Worker - Acute - Local effects	1100 mg/m³
	Worker - Acute - Systemic effects	1300 mg/m³
	Consumer - Acute - Local effects	640 mg/m³
	Consumer - Acute - Systemic effects	1200 mg/m³
78-78-4 is	opentane	
Oral	Consumer - Long term - Systemic effects	214 mg/kg bw
Dermal	Worker - Long term - Systemic effects	432 mg/kg bw/day
	General population - long term - systemic effects	214 mg/kg bw/day
Inhalative	Worker - Long term - Systemic effects	3000 mg/m³
	Consumer - Long term - Systemic effects	643 mg/m³
	Worker - Acute - Local effects	214 mg/m ³

· 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:

Filter AX

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:

Protective gloves and protective skin cream.

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



Protective gloves

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

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.

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.
- · **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:	Green
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	<35 ℃
· Flash point:	-56 °C
· Ignition temperature:	420 °C
· Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
 Danger of explosion: 	Product is not explosive. However, formation of explosive
	air/steam mixtures is possible.
 Critical values for explosion: 	
Lower:	1.3 Vol %
Upper:	7.6 Vol %
 Vapour pressure at 20 °C: 	573 hPa
· Density at 20 °C	0.7 g/cm³
 Vapour density 	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wa	ater): Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
· Solvent content:	
 Organic solvents: 	
VOC EU	100 %
· VOC (EC)	100 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- 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.

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SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

78-78-4 isopentane

 Oral
 LD50
 >2000 mg/kg (Rat) (OECD TG 401)

 Inhalative
 LC50/4 h
 >25.3 mg/l (Rat) (OECD TG 403)

· Primary irritant effect:

· Skin corrosion/irritation

Causes skin irritation.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard
- May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

78-78-4 isopentane

EC50 (48 h) 2.3 mg/l (Daphnia magna)

LC50 (96 h) 3.1 mg/l (Reg)

• 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:

Allocation to ID No. 820 petrol, not identified as carcinogenic (R45). 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.

- · 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

The product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility.

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system.	(Contd. of page pusehold garbage. Do not allow product to reach sewag re recommendations based on the probable use of th			
European waste catalogue				
13 07 02* petrol				
15 01 10* packaging containing residues of or contaminated by hazardous substances				
 Uncleaned packagings: Recommendation: Dispose of packaging 	according to regulations on the disposal of packagings.			
SECTION 14: Transport informat	ion			
· 14.1 UN-Number · ADR,RID,ADN, IMDG, IATA	UN1203			
14.2 UN proper shipping name ADR/RID/ADN	1203 MOTOR SPIRIT, ENVIRONMENTALL HAZARDOUS			
IMDG, IATA	MOTOR SPIRIT			
14.3 Transport hazard class(es) ADR/RID/ADN				
Class Label	3 Flammable liquids. 3			
IMDG, IATA				
Class Label	3 Flammable liquids. 3			
14.4 Packing group ADR,RID,ADN, IMDG, IATA	11			
· 14.5 Environmental hazards: · Special marking (ADR/RID/ADN):	Symbol (fish and tree)			
 14.6 Special precautions for user Kemler Number: EMS Number: Stowage Category 	Warning: Flammable liquids. 33 F-E,S-E E			
	nex II			

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· Transport/Additional information:	
 ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code Remarks: 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 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) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1203 MOTOR SPIRIT, 3, II ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category
- P5a FLAMMABLE LIQUIDS
- E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 10 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 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.

H226 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.

· Department issuing data specification sheet:

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

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Abbrev	viations and acronyms.				
	cord européen sur le transpo		langereuses par Route (European Agreeme	nt concerning th
	onal Carriage of Dangerous G				
	ternational Maritime Code for	0			
	ernational Air Transport Assoc				
	bally Harmonised System of				
	European Inventory of Existin		al Substances		
ELINCS:	European List of Notified Che	mical Substances			
	emical Abstracts Service (divi		hemical Society)		
VOC: Vola	latile Organic Compounds (US	SA, EU)			
DNEL: De	erived No-Effect Level (REAC	H)			
LC50: Let	thal concentration, 50 percent				
LD50: Let	thal dose, 50 percent				
PBT: Pers	sistent, Bioaccumulative and	Toxic			
vPvB: ver	ry Persistent and very Bioacci	ımulative			
Flam. Liq.	. 1: Flammable liquids – Cate	gory 1			
Flam. Liq.	. 3: Flammable liquids – Cate	gory 3			
Skin Irrit.	2: Skin corrosion/irritation - C	ategory 2			
STOT SE	E 3: Specific target organ toxic	ity (single exposure) –	Category 3		
Asp. Tox.	. 1: Aspiration hazard – Categ	ory 1			
Aquatic C	Chronic 2: Hazardous to the ac	uatic environment - lo	ng-term aquatic hazard –	Category 2	
Aquatic C	Chronic 4: Hazardous to the ad	uatic environment - lo	ng-term aquatic hazard –	Category 4	
* Data d	compared to the previo	ous version altere	ed.		