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1 Identification

- · Product identifier
- · Trade name: MOTOR START SPRAY
- Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance / the mixture

Only for proper handling.

Fuel additive

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MOTOREX AG

Bern-Zürich-Strasse 31, Postfach

CH-4901 Langenthal

Tel. +41 (0)62 919 75 75

www.motorex.com

A1 Accessory Imports

60-62 Burchill St.

Loganholme

4129 QLD

Australia

Phone: 07 3451 1300

- · Further information obtainable from: msds@motorex.com
- · Emergency telephone number:

In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

2 Hazard(s) Identification

· Classification of the substance or mixture

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if Aerosol 1

heated.

Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 2 H371 May cause damage to the central nervous system and the visual organs.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

- · Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms







GHS02

GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane methanol

isopentane

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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H302 Harmful if swallowed. H315 Causes skin irritation.

H371 May cause damage to the central nervous system and the visual organs.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

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

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

regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
	diethyl ether Flam. Liq. 1, H224; Acute Tox. 4, H302; STOT SE 3, H336	25-50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure Flam. Gas 1, H220; Press. Gas C, H280	25-50%
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	≥10-<20%
EINECS: 200-659-6 Index number: 603-001-00-X	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	1-2.5%

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eve contact: Rinse opened eve for several minutes under running water.
- After swallowing: Call for a doctor immediately.

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- Information for doctor:
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire Fighting Measures

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

· Protective equipment: Mouth respiratory protective device.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 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.

See Section 13 for disposal information.

7 Handling and Storage

- Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

- Storage:
- · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

The recommended storage temperature is (deg.C): ≤50°C

Keep container tightly sealed.

- · Storage class: 2 B
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see section 7.

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Ingredien	ts with limit values that require monitoring	at the w	(Contd. of pa
60-29-7 di	ethyl ether		
WES Short-term value: 1520 mg/m³, 500 ppm Long-term value: 1210 mg/m³, 400 ppm			
	outane, pure		
WES Lon	g-term value: 1900 mg/m³, 800 ppm		
74-98-6 pi	ropane		
WES Asp	hyxiant		
67-56-1 m			
	NES Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Sk		
DNELs			
60-29-7 di	ethyl ether		
Oral	DNEL/general population/Systemic effects/Lo	ong-term	15.6 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-ter	•	44 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Lo		15.6 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-ter	m	308 mg/m3 (worker)
	DNEL/Workers/Systemic effects/acute-short	term	616 mg/m3 (worker)
	DNEL/general population/Systemic effects/Lo	ong-term	54.5 mg/m3 (consumer)
67-56-1 m	ethanol		
Oral			8 mg/kg/24h (consumer)
	DNEL/general pop/Systemic effects/acute-sh	ort term	8 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term 40 m		40 mg/kg/24h (worker)
	DNEL/Workers/Systemic effects/acute-short term 40 mg/kg/24h		40 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term 8 mg/kg/24h (consume		8 mg/kg/24h (consumer)
	DNEL/general pop/Systemic effects/acute-short term 8 mg/kg/24h (consumer,		8 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term		260 mg/m3 (worker)
	DNEL/Workers/Systemic effects/acute-short	term	260 mg/m3 (worker)
	DNEL/Workers/Local effects/acute-short term	า	260 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-term		260 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term 50 mg/m3 (consumer)		50 mg/m3 (consumer)
	DNEL/general pop/Systemic effects/acute-sh		50 mg/m3 (consumer)
	DNEL/general pop/Local effects/acute-short term		50 mg/m3 (consumer)
	DNEL/general population/Local effects/Long-	ts/Long-term 50 mg/m3 (consumer)	
PNECs			
	ethyl ether		
PNEC / Ad	quatic organisms / Freshwater	2 mg/l (a	quatic organisms)
PNEC / Ad	quatic organisms / Marine water	0.2 mg/l	(aquatic organisms)
•	uatic org/intermittent releases(freshwater)	1.65 mg/	l (aquatic organisms)
-	uatic organisms/Sewage treatment plant/STP	_	(aquatic organisms)
PNEC / Aquatic organisms / Sediment (freshwater) 9.14 mg/kg (aquatic organisms)			
	quatic organisms / Sediment (marine water)	_	g/kg (aquatic organisms)
	errestrial organism / Soil	0.66 mg/	kg (terrestrial organisms)
67-56-1 m			
	quatic organisms / Freshwater	_	(I (aquatic organisms)
PNEC / Aquatic organisms / Marine water 2.08 mg/l (aquatic organisms)			

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PNEC/Aquatic org/intermittent releases(freshwater) 1,540 mg/l (aquatic organisms) PNEC/Aquatic organisms/Sewage treatment plant/STP 100 mg/l (aquatic organisms) PNEC / Aquatic organisms / Sediment (freshwater) 77 mg/kg (aquatic organisms) PNEC / Aquatic organisms / Sediment (marine water) 7.7 mg/kg (aquatic organisms) 100 mg/kg (terrestrial organisms) PNEC / Terrestrial organism / Soil

- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

Protection of hands:



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

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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: Not required.
- · Body protection: Protective work clothing

9 Physical and Chemical Properties

General Information

· Appearance:

Liquefied gas Form: Colourless · Colour: Ether-like · Odour: · Odour threshold: Not determined. Not determined. · pH-value:

· Change in condition

Melting point/freezing point: Undetermined.

· Initial boiling point and boiling range: Not applicable, as aerosol.

<-60 °C · Flash point:

Flammability (solid, gas): Not applicable.

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· Decomposition temperature: Not determined.

• Explosive properties: Product is not explosive. However, formation of explosive

air/vapour mixtures are possible.

· Explosion limits:

Lower: Not determined.
Upper: Not determined.
Vapour pressure: Not determined.

Density at 20 °C: 0.64 g/cm³ (ASTM D 4052)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not applicable.

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic: Not determined.Kinematic: Not determined.

· Solvent separation test:

VOC (EC) 97.56 %

• Other information No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- Information on toxicological effects
- · Acute toxicity Harmful if swallowed.

LD/LC30	values relevan	t for classification:
60-29-7 d	iethyl ether	
Oral	LD50	1,200-3,560 mg/kg (rat)
	NOAEL	500 mg/kg/24h (rat)
	LOAEL	2,000 mg/kg/24h (rat)
Inhalative	LC50 / 4h	73,000 mg/l (rat)
	LC50 / 4h	32,000 ppm (rat)
	NOEL	20,000 ppm (rat)
	NOAEC	3,300-20,000 ppm (rat)
	NOEC	480 ppm (rat)
106-97-8	butane, pure	
Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)

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	LC50 / 4h	658 mg/l (rat)	
	NOAEC	4,000-16,000 ppm (rat)	
	NOAEC	7.2-21.4 mg/l (rat)	
	LOAEC	21.6 mg/l (rat)	
	LOAEC	12,000 ppm (rat)	
67-56-1 m	ethanol		
Oral	LD50	1,187-2,769 mg/kg (rat)	
Dermal	LD50	15,800 mg/kg (rabbit)	
Inhalative	LC50 / 6h	82.1-92.6 mg/l (rat)	
	LC50 / 4h	115.9-130.7 mg/l (rat)	
	NOAEC	1.3 mg/l (mouse)	
		6.66 mg/l (rat)	
	NOEC	130 mg/m3 (mouse)	
		130 mg/m3 (rat)	

- · 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.
- 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 damage to the central nervous system and the visual organs.

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.

12 Ecological Information

· Toxicity

· Aquati	c toxicity:
60-29-	7 diethyl ether
LC50	2,560 mg/l/96h (fish)
LC50	2,840 mg/l/48h (fish)
LC50	2,138 mg/l/14d (fish)
EC50	21,000-26,000 mg/l/3h (microorganisms)
EC50	100 mg/l/72h (algae / cyanobacteria)
EC50	100 mg/l/21d (aquatic invertebrates)
NOEC	100 mg/l/21d (aquatic invertebrates)
NOEC	100 mg/l/72h (algae / cyanobacteria)
NOEC	33-42 mg/l/3h (microorganisms)
LOEC	100 mg/kg/28d (aquatic invertebrates)
LOEC	100 mg/l/48h (algae / cyanobacteria)
106-97	-8 butane, pure
LC50	24.1-147.5 mg/l/96h (fish)
LC50	14.2-69.4 mg/l/48h (aquatic invertebrates)
EC50	7.7-19.4 mg/l/96h (algae / cyanobacteria)
67-56-	1 methanol
LC50	15,400 mg/l/96h (fish)
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	(Contd. of page 7)
EC50	15.492 g/kg/14d (terrestrial plants)
EC50	15.492 g/kg/21d (terrestrial plants)
EC50	5.683 g/kg/28d (terrestrial arthropods)
EC50	18,260 mg/l/96h (aquatic invertebrates)
	22,000 mg/l/96h (algae / cyanobacteria)
	12,700 mg/l/96h (fish)
NOEC	20 g/kg/21d (terrestrial plants)
NOEC	10 g/kg/28d (terrestrial arthropods)
NOEC	208 mg/l/21d (aquatic invertebrates)
NOEC	446.7 mg/l/28d (fish)

- · Persistence and degradability No further relevant information available.

· Behaviour in envi	· Behaviour in environmental systems:		
· Bioaccumulative	· Bioaccumulative potential		
60-29-7 diethyl ether			
Partition coefficient	Partition coefficient 1.05-1.19 [] (log Kow) (Bioaccumulation)		
106-97-8 butane, pure			
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)		
67-56-1 methanol			
Partition coefficient	≤0.77 [] (log Kow) (Bioaccumulation)		
Biodegradability	>83 % (28d) (Biodegradability)		

- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

14 Transport information

- · UN-Number
- · ADG, IMDG, IATA UN1950

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(Contd. of page 8) · UN proper shipping name · ADG 1950 AEROSOLS · IMDG **AEROSOLS** AEROSOLS, flammable · IATA · Transport hazard class(es) · ADG · Class 2 5F Gases. · Label 2.1 · IMDG, IATA · Class 2.1 Gases. · Label 2.1 Packing group ADG, IMDG, IATA Not classified as hazardous for transport Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Gases. · Hazard identification number (Kemler code): · F-D.S-U · EMS Number: · Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity · Segregation Code of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2. · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · ADG · Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity · Transport category Tunnel restriction code D

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· IMDG

· Limited quantities (LQ)

Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· UN "Model Regulation": UN 1950 AEROSOLS, 2.1

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

1L

IIIIXluie					
· Australia	· Australian Inventory of Industrial Chemicals				
60-29-7	diethyl ether				
106-97-8	butane, pure				
74-98-6	propane				
67-56-1	methanol				
75-28-5	isobutane				
78-78-4	isopentane				
· Standard	Standard for the Uniform Scheduling of Medicines and Poisons				
60-29-7	diethyl ether	S2, S4, S5, S6			
67-56-1	methanol	S5, S6, S10			
· Australia	· Australia: Priority Existing Chemicals				
None of to	ne ingredients is listed.				

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · Chemical safety assessment: A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

· purity requirement

· Relevant phrases

H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

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H370 Causes damage to organs.

- · Department issuing SDS: Abteilung Produktsicherheit
- Contact:
- · Abbreviations and acronyms:

Flam. Gas 1: Flammable gases - Category 1

Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 1: Flammable liquids – Category 1
Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1

* Data compared to the previous version altered.