

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

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

· **1.1 Product identifier**

· **Trade name:** **FOUR STROKE 4T SAE 5W/40 JASO MA2**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

*Private use of lubricants and greases in vehicles or machines*

*Industrial use of lubricants and greases in vehicles or machinery*

*Professional use of lubricants and greases in vehicles or machines*

*According to the generic exposure scenarios of the ATIEL / ATC on the use of lubricants (V1.0, 07.01.2013)*

*See details of exposure scenarios in Annex*

· **Application of the substance / the mixture**

*Only for proper handling.*

*Engine oil*

· **1.3 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](http://www.motorex.com)

· **Only representative in EU:**

MOTOREX GmbH, Industrie Schmiertechnik, Bismarckstrasse 28, D-69198 Schriesheim

· **Further information obtainable from:** [msds@motorex.com](mailto:msds@motorex.com)

· **1.4 Emergency telephone number:**

*In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).*

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

*The product is not classified, according to the CLP regulation.*

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **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:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)

# Safety data sheet

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

Trade name: **FOUR STROKE 4T SAE 5W/40 JASO MA2**

(Contd. of page 1)

**· Dangerous components:**

	Mineral oils (mixture) Asp. Tox. 1, H304	≥10-≤25%
CAS: 72623-87-1 EINECS: 276-738-4 Index number: 649-483-00-5 Reg.nr.: 01-2119474889-13	Lubricating oils (petroleum), C20-50, hydro-treated neutral oil-based Asp. Tox. 1, H304	2.5-7.5%
CAS: 147880-09-9 EC number: 604-611-9	Amines, Polyethylenepoly-, reaction products with 1,3-Dioxolan-2-one and Succinic anhydride monopolyisobutenyl derivs. Aquatic Chronic 4, H413	1-2.5%

**· Additional information:**

Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346. 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:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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:**  
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ 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, sawdust).
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

(Contd. on page 3)

GB

# Safety data sheet

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

**Trade name: FOUR STROKE 4T SAE 5W/40 JASO MA2**

See Section 13 for disposal information.

(Contd. of page 2)

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:**  
No further data; see section 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · DNELs

#### **72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based**

Inhalative	DNEL / Workers / Local Effects / Long-term	5.4 mg/m <sup>3</sup> /8h (worker)
	DNEL/general population/Local effects/Long-term	1.2 mg/m <sup>3</sup> /24h (consumer)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**  
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:**  
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.

(Contd. on page 4)

GB

## Safety data sheet

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

Trade name: **FOUR STROKE 4T SAE 5W/40 JASO MA2**

(Contd. of page 3)

- **Eye protection:** Goggles 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:

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Yellow-brown
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

##### · Change in condition

· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	Undetermined.

· **Flash point:** >200 °C

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

##### · Explosion limits:

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 0.851 g/cm<sup>3</sup> (ASTM D 4052)

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

##### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

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

##### · Viscosity:

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	89 mm <sup>2</sup> /s @ 40 °C
· <b>VOC (EC)</b>	0.00 %

· **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.

(Contd. on page 5)

# Safety data sheet

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

Trade name: **FOUR STROKE 4T SAE 5W/40 JASO MA2**

(Contd. of page 4)

- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### 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 relevant for classification:

##### 72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

Oral	LD50	5,000 mg/kg (rat)
	LOAEL	125 mg/kg/24h (rat)
Dermal	LD50	2,000-5,000 mg/kg (rabbit)
	NOAEL	150 mg/kg/24h (mouse)
		30-2,000 mg/kg/24h (rat)
	LOAEL	1,000 mg/kg/24h (rabbit)
Inhalative	LOAEL	100 mg/kg/24h (mouse)
	LC50 / 4h	2.18-5.53 mg/l (rat)
	NOAEC	980 mg/m <sup>3</sup> (rat)
	NOEC	220 mg/m <sup>3</sup> (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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 (carcinogenicity, 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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### 72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

LL50	10,000 mg/l/96h (aquatic invertebrates)
	100 mg/l/96h (fish)
LL50	10,000 mg/l/72h (aquatic invertebrates)
LL50	10,000 mg/l/48h (aquatic invertebrates)
LL50	10,000 mg/l/24h (aquatic invertebrates)
EL50	10,000 mg/l/48h (aquatic invertebrates)

- **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.

(Contd. on page 6)

# Safety data sheet

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

**Trade name: FOUR STROKE 4T SAE 5W/40 JASO MA2**

(Contd. of page 5)

- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 together with household garbage. Do not allow product to reach sewage system.  
Contact waste processors for recycling information.

<b>European waste catalogue</b>	
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>  | Void            |
| · <b>ADR/RID/ADN, IMDG, IATA</b>   | Void            |
| · <b>14.2 UN proper shipping name</b>  | Void            |
| · <b>ADR/RID/ADN, IMDG, IATA</b>   | Void            |
| · <b>14.3 Transport hazard class(es)</b>   | Void            |
| · <b>ADR/RID/ADN, ADN, IMDG, IATA</b>  | Void            |
| · <b>Class</b>   | Void            |
| · <b>14.4 Packing group</b>  | Void            |
| · <b>ADR/RID/ADN, IMDG, IATA</b>   | Void            |
| · <b>14.5 Environmental hazards:</b>   | Not applicable. |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Void            |

### 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.

(Contd. on page 7)

GB

## Safety data sheet

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

**Trade name: FOUR STROKE 4T SAE 5W/40 JASO MA2**

(Contd. of page 6)

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### SECTION 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.*

· **Relevant phrases**

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

*H413 May cause long lasting harmful effects to aquatic life.*

· **Department issuing SDS:** Abteilung Produktsicherheit

· **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)*

*VOC: Volatile Organic Compounds (USA, EU)*

*DNEL: Derived No-Effect Level (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Asp. Tox. 1: Aspiration hazard – Category 1*

*Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4*

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

### Annex: Exposure scenario 1

· **Short title of the exposure scenario**

*Industrial use of lubricants and greases in vehicles or machinery*

· **Sector of Use**

*SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites*

· **Product category**

*PC16 Heat transfer fluids*

*PC17 Hydraulic fluids*

*PC24 Lubricants, greases, release products*

· **Process category**

*PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.*

*PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions*

*PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities*

(Contd. on page 8)

## Safety data sheet

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

**Trade name: FOUR STROKE 4T SAE 5W/40 JASO MA2**

(Contd. of page 7)

- PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)*
- **Environmental release category**
  - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)*
  - ERC7 Use of functional fluid at industrial site*
  - **Description of the activities / processes covered in the Exposure Scenario**  
*See section 1 of the annex to the Safety Data Sheet.*
  - **Conditions of use**
  - **Duration and frequency** *5 workdays/week.*
  - **Physical parameters**
  - **Physical state** *Fluid*
  - **Concentration of the substance in the mixture** *The substance is main component.*
  - **Other operational conditions**
  - **Other operational conditions affecting environmental exposure**  
*No special measures required.*
  - **Other operational conditions affecting consumer exposure** *Not required.*
  - **Other operational conditions affecting consumer exposure during the use of the product**  
*Not applicable.*
  - **Risk management measures**
  - **Worker protection**
  - **Organisational protective measures** *No special measures required.*
  - **Technical protective measures** *No special measures required.*
  - **Personal protective measures** *No special measures required.*
  - **Measures for consumer protection** *No special measures required.*
  - **Environmental protection measures**
  - **Air** *No special measures required.*
  - **Water** *No special measures required.*
  - **Disposal measures** *Ensure that waste is collected and contained.*
  - **Disposal procedures** *Dispose of product residues with household waste.*
  - **Waste type** *Partially emptied and uncleaned packaging*
  - **Exposure estimation**
  - **Consumer** *Not relevant for this Exposure Scenario.*
  - **Guidance for downstream users** *No further relevant information available.*

### Annex: Exposure scenario 2

- **Short title of the exposure scenario**  
*Professional use of lubricants and greases in vehicles or machines*
- **Sector of Use**  
*SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)*
- **Product category**  
*PC16 Heat transfer fluids*  
*PC17 Hydraulic fluids*  
*PC24 Lubricants, greases, release products*
- **Process category**  
*PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.*  
*PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions*  
*PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities*  
*PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities*

(Contd. on page 9)

GB



## Safety data sheet

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

**Trade name: FOUR STROKE 4T SAE 5W/40 JASO MA2**

(Contd. of page 8)

- PROC20 Use of functional fluids in small devices*
- **Environmental release category**
  - ERC9a Widespread use of functional fluid (indoor)*
  - ERC9b Widespread use of functional fluid (outdoor)*
  - **Description of the activities / processes covered in the Exposure Scenario**  
*See section 1 of the annex to the Safety Data Sheet.*
  - **Conditions of use**
  - **Duration and frequency** *5 workdays/week.*
  - **Physical parameters**
  - **Physical state** *Fluid*
  - **Concentration of the substance in the mixture** *The substance is main component.*
  - **Other operational conditions**
  - **Other operational conditions affecting environmental exposure**  
*No special measures required.*
  - **Other operational conditions affecting consumer exposure** *Not required.*
  - **Other operational conditions affecting consumer exposure during the use of the product**  
*Not applicable.*
  - **Risk management measures**
  - **Worker protection**
  - **Organisational protective measures** *No special measures required.*
  - **Technical protective measures** *No special measures required.*
  - **Personal protective measures** *No special measures required.*
  - **Measures for consumer protection** *No special measures required.*
  - **Environmental protection measures**
  - **Air** *No special measures required.*
  - **Water** *No special measures required.*
  - **Disposal measures** *Ensure that waste is collected and contained.*
  - **Disposal procedures** *Dispose of product residues with household waste.*
  - **Waste type** *Partially emptied and uncleaned packaging*
  - **Exposure estimation**
  - **Consumer** *Not relevant for this Exposure Scenario.*
  - **Guidance for downstream users** *No further relevant information available.*

### Annex: Exposure scenario 3

- **Short title of the exposure scenario**  
*Private use of lubricants and greases in vehicles or machines*
- **Sector of Use** *SU21 Consumer uses: Private households / general public / consumers*
- **Product category** *PC24 Lubricants, greases, release products*
- **Environmental release category**
- ERC9a Widespread use of functional fluid (indoor)*
- ERC9b Widespread use of functional fluid (outdoor)*
- **Description of the activities / processes covered in the Exposure Scenario**  
*See section 1 of the annex to the Safety Data Sheet.*
- **Conditions of use**
- **Duration and frequency** *5 workdays/week.*
- **Physical parameters**
- **Physical state** *Fluid*
- **Concentration of the substance in the mixture** *The substance is main component.*
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure**  
*No special measures required.*
- **Other operational conditions affecting consumer exposure** *Not required.*

(Contd. on page 10)

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

Printing date 10.11.2020

Version number 2.0

Revision: 10.11.2020

**Trade name: FOUR STROKE 4T SAE 5W/40 JASO MA2**

(Contd. of page 9)

- **Other operational conditions affecting consumer exposure during the use of the product**  
*Not applicable.*
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** *No special measures required.*
- **Technical protective measures** *No special measures required.*
- **Personal protective measures** *No special measures required.*
- **Measures for consumer protection** *No special measures required.*
- **Environmental protection measures**
- **Air** *No special measures required.*
- **Water** *No special measures required.*
- **Disposal measures** *Ensure that waste is collected and contained.*
- **Disposal procedures** *Dispose of product residues with household waste.*
- **Waste type** *Partially emptied and uncleaned packaging*
- **Exposure estimation**
- **Consumer** *Not relevant for this Exposure Scenario.*
- **Guidance for downstream users** *No further relevant information available.*

GB