



Four Stroke Motor Oils

**Technomoto Syntec 4 10W40**

**Description**

Technomoto Syntec 4 synthetic four stroke motorcycle engine oil contains Putolines revolutionary "pure bike" TECHNOMOTO additive system. This ensures total compatibility with modern clutch friction material. Developed exclusively for superbike use.

**Application**

**Specifications**

JASO MA2  
API SL

**Typical standard analyses**

Density at 15 °C, kg/l	0,856
Viscosity -25 °C, mPa.s	4600
Viscosity 40 °C, mm <sup>2</sup> /s	93,00
Viscosity 100 °C, mm <sup>2</sup> /s	14,60
Viscosity Index	163
Flash Point COC, °C	234
Pour Point, °C	-30
Total Base Number, mgKOH/g	7,7
Sulphate Ash, %	0,94

12/06/2011

The data mentioned in this product information sheet is meant to enable the reader to orientate himself about the properties and possible applications of our products. Although this overview is composed with all possible care on the stated date, the compiler does not accept any liability for damages caused by incompleteness and/or inaccuracies in this information, especially when these are caused by obvious typing errors. The terms of delivery of the supplier apply to all product supplies. The reader is advised, especially for critical applications, to make the final product choice in consultation with the supplier. Due to continual product research and development, the information contained herein is subject to changes without notification.

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.03.2011

Version number 5

Revision: 15.03.2011

### \* 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** **Syntec 4 10W40**
- **Article number:** PM.40.14
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC24 Lubricants, greases, release products
- **Process category**
  - PROC1 Use in closed process, no likelihood of exposure
  - PROC2 Use in closed, continuous process with occasional controlled exposure
  - PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/ large containers at non-dedicated facilities
  - PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/ large containers at dedicated facilities
  - PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed systems
- **Environmental release category**
  - ERC9a Wide dispersive indoor use of substances in closed systems
  - ERC9b Wide dispersive outdoor use of substances in closed systems
- **Application of the substance / the preparation**
  - Lubricating oil
  - Engine oil
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** Putoline Oil  
Dollegoorweg 15  
NL-7602 EC ALMELO  
Tel.: +31 (0)546 818165
- **Further information obtainable from:** Product safety department - vib@putoline.com
- **Emergency telephone number:** +31 (0)546 818165 (9 AM to 4 PM, Monday to Friday)

### \* 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.

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- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:** The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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- **Label elements**
- **Labelling according to EU guidelines:** Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Special labelling of certain preparations:** Contains Calcium long chain alkaryl sulfonate. May produce an allergic reaction.  
Safety data sheet available for professional user on request.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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## \* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· <b>Dangerous components:</b>			
Polymer	polyolefin polyamine succinimide, borated	R53	1-2.5%
		Aquatic Chronic 4, H413	
Polymer	polyolefin polyamine succinimide	R53	1-2.5%
		Aquatic Chronic 4, H413	

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## \* 4 First aid measures

- **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:** Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Indication of any immediate medical attention and special treatment needed** If swallowed or in case of vomiting, danger of entering the lungs.

## \* 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, dry chemical, or foam. Water can be used to cool and protect exposed material.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.  
Wear fully protective suit.

## \* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Remove from the water surface (e.g. skim or suck off).
- **Reference to other sections** No dangerous substances are released.  
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** No special measures required.  
Avoid the formation of oil haze.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:** Oil resistant gloves
- **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.  
Nitrile rubber, NBR  
PVC gloves  
Neoprene gloves
- **Penetration time of glove material** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

## \* 9 Physical and chemical properties

<ul style="list-style-type: none"> <li>· <b>Information on basic physical and chemical properties</b></li> <li>· <b>General Information</b></li> <li>· <b>Appearance:</b> <ul style="list-style-type: none"> <li>Form: Liquid</li> <li>Colour: Brown</li> </ul> </li> <li>· <b>Odour:</b> Characteristic</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Change in condition</b> <ul style="list-style-type: none"> <li>Melting point/Melting range: Undetermined.</li> <li>Boiling point/Boiling range: Undetermined.</li> </ul> </li> <li>· <b>Drip point:</b> <ul style="list-style-type: none"> <li>Pour point: -21 °C</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Flash point:</b> &gt; 110°C</li> <li>· <b>Flammability (solid, gaseous):</b> Not applicable.</li> <li>· <b>Self-igniting:</b> Product is not selfigniting.</li> <li>· <b>Danger of explosion:</b> Product does not present an explosion hazard.</li> <li>· <b>Explosion limits:</b> <ul style="list-style-type: none"> <li>Lower: 0.6 Vol %</li> <li>Upper: 7.0 Vol %</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Density at 20°C:</b> 0.864 g/cm<sup>3</sup></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Solubility in / Miscibility with water:</b> Not miscible or difficult to mix.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Segregation coefficient (n-octanol/water):</b> Not determined.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Viscosity:</b> <ul style="list-style-type: none"> <li>40°C: 95,0 mm<sup>2</sup>/s</li> </ul> </li> </ul>	

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· Solvent content:	
Organic solvents:	0.0 %
· Other information	No further relevant information available.

## 10 Stability and reactivity

· Reactivity	
· Chemical stability	
· Thermal decomposition / conditions to be avoided:	To avoid thermal decomposition do not overheat.
· Possibility of hazardous reactions	Reacts with strong oxidizing agents.
· 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:	
· Primary irritant effect:	
· on the skin:	No irritant effect.
· on the eye:	No irritating effect.
· Sensitization:	No sensitizing effects known.
· Additional toxicological information:	The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

## \* 12 Ecological information

· Toxicity	
· Aquatic toxicity:	No further relevant information available.
· Persistence and degradability	No further relevant information available.
· Other information:	The product is difficultly biodegradable.
· Behaviour in environmental systems:	
· Bioaccumulative potential	No further relevant information available.
· 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 course or sewage system. Danger to drinking water if even small quantities leak into the ground.
· 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.

· European waste catalogue	
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

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

## \* 14 Transport information

· <b>Land transport ADR/RID (cross-border)</b>	
· <b>ADR/RID class:</b>	-
· <b>Maritime transport IMDG:</b>	
· <b>IMDG Class:</b>	-
· <b>Marine pollutant:</b>	No
· <b>Air transport ICAO-TI and IATA-DGR:</b>	
· <b>ICAO/IATA Class:</b>	-
· <b>UN "Model Regulation":</b>	-
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

## \* 15 Regulatory information

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

- **Relevant phrases**
  - H413 May cause long lasting harmful effects to aquatic life.
  - R53 May cause long-term adverse effects in the aquatic environment.
- **Department issuing MSDS:** Product safety department.
- **Contact:** Product safety department
- **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)
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
  - ICAO: International Civil Aviation Organization
  - ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- **Sources**
  - 67/548/EEC - Dangerous Substances Directive
  - 99/45/EEC - Dangerous Preparations Directive
- **\* Data compared to the previous version altered.**