



## 2-Stroke Oil Synthetic TC+

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Issue date: 8-6-2020 Revision date: 21-4-2021 Supersedes: 27-11-2020 version: 5.0

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

##### 1.1. Product identifier

Product form : Mixture  
Product name : 2-Stroke Oil Synthetic TC+  
Product code : 43000  
Product group : Blend

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

###### 1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use  
Industrial/Professional use spec : Non-dispersive use  
Used in closed systems  
Function or use category : Lubricants and additives

###### 1.2.2. Uses advised against

No additional information available

##### 1.3. Details of the supplier of the safety data sheet

MPM International Oil Company  
Cyclotronweg 1  
2629 HN Delft Delft - Nederland  
T +31 (0)15 2514030 - F +31 (0)15 2514031  
[msds@mpmoil.nl](mailto:msds@mpmoil.nl) - [www.mpmoil.nl](http://www.mpmoil.nl)

##### 1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

| Country        | Official advisory body  | Address                                  | Emergency number   | Comment |
|----------------|---|--|--|---------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital  | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7)<br>+353 1 809 2166 (public, 8am - 10pm, 7/7) |         |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit,<br>Guy's & St Thomas' Hospital<br>Trust | Avonley Road<br>SE14 5ER London          | +44 20 7188 7188   |         |

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

###### Adverse physicochemical, human health and environmental effects

No additional information available

##### 2.2. Label elements

###### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH208 - Contains MOB calcium branched alkyl phenate. May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

##### 2.3. Other hazards

No additional information available

#### SECTION 3: Composition/information on ingredients

##### 3.1. Substances

Not applicable

##### 3.2. Mixtures

Comments : Highly refined mineral oil, contains <3% (w/w) DMSO extract, according to IP346

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| Name   | Product identifier   | %          | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|------------|---|
| Hydrocarbons, C11-C14, n-alkanes, cyclic, <2% aromates | (EC-No.) 926-141-6<br>(REACH-no) 01-2119456620-43                                | < 20       | Asp. Tox. 1, H304   |
| MOB calcium branched alkyl phenate                     | (EC-No.) 420-470-4<br>(EC Index-No.) 020-003-00-0<br>(REACH-no) 01-0000016710-77 | 0,1 – 0,24 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317  |

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                    |   |
|--------------------|---|
| After inhalation   | : Not required.   |
| After skin contact | : Wash skin with mild soap and water.   |
| After eye contact  | : In case of eye contact, immediately rinse with clean water for 10-15 minutes. |
| After ingestion    | : Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.  |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                    |  |
|--------------------|--|
| After inhalation   | : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.  |
| After skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use.        |
| After eye contact  | : Not expected to present a significant eye contact hazard under anticipated conditions of normal use. |
| After ingestion    | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.   |

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |                                      |
|--------------------------------|--------------------------------------|
| Suitable extinguishing media   | : Water spray, powder, foam and CO2. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.   |

#### 5.2. Special hazards arising from the substance or mixture

|             |  |
|-------------|--|
| Fire hazard | : No additional information available. |
|-------------|--|

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Precautionary measures fire    | : Exercise caution when fighting any chemical fire.   |
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers.  |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear suitable protective clothing and gloves. |
|----------------------|---|

##### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Wear suitable protective clothing and gloves. |
|----------------------|---|

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

|                         |  |
|-------------------------|--|
| For containment         | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. |
| Methods for cleaning up | : Detergent. Clean up any spills as soon as possible, using an absorbent material to collect it.     |
| Other information       | : Spill area may be slippery. Use suitable disposal containers.                                      |

#### 6.4. Reference to other sections

No additional information available.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. |
|-------------------------------|---|

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Handling temperature : < 40 °C  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage temperature : ≤ 40 °C  
Storage area : Store in a closed container. Store in dry, well-ventilated area.

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m<sup>3</sup> oilspray (TWA, 8 hour workday) is recommended.

### 8.2. Exposure controls

#### Technical measures:

No additional information available.

#### Personal protective equipment:

Safety glasses. Gloves.

#### Hand protection:

| Type   | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
|--------|----------------------|-------------------|----------------|-------------|------------|
| Gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | > 0,35         |             | EN ISO 374 |

#### Eye protection:

No special eye protection equipment recommended under normal conditions of use

#### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

#### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

#### Personal protective equipment symbol(s):



#### Thermal hazard protection:

No additional information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Oily liquid.  
Colour : Dark green.  
Odour : Characteristic.  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : > 100 °C @ ASTM D92  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available

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|                      |   |
|----------------------|---|
| Density              | : 870 g/l @ 15°C  |
| Solubility           | : Slightly soluble, the product remains on the water surface. |
| Log Pow              | : No data available   |
| Viscosity, kinematic | : 77 mm <sup>2</sup> /s @ 40°C                                |
| Viscosity, dynamic   | : No data available   |
| Explosive properties | : No data available   |
| Oxidising properties | : No data available   |
| Explosive limits     | : No data available   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

None under normal conditions.

### 10.5. Incompatible materials

Strong oxidizing agent. Acids and bases.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

### Hydrocarbons, C11-C14, n-alkanes, cyclic, <2% aromates

|               |              |
|---------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
|---------------|--------------|

|                    |              |
|--------------------|--------------|
| LD50 dermal rabbit | > 5000 mg/kg |
|--------------------|--------------|

|                       |                          |
|-----------------------|--------------------------|
| LC50 Inhalation - Rat | > 5000 mg/m <sup>3</sup> |
|-----------------------|--------------------------|

|                           |                  |
|---------------------------|------------------|
| Skin corrosion/irritation | : Not classified |
|---------------------------|------------------|

|                               |                  |
|-------------------------------|------------------|
| Serious eye damage/irritation | : Not classified |
|-------------------------------|------------------|

|                                   |                  |
|-----------------------------------|------------------|
| Respiratory or skin sensitisation | : Not classified |
|-----------------------------------|------------------|

|                        |                  |
|------------------------|------------------|
| Germ cell mutagenicity | : Not classified |
|------------------------|------------------|

|                 |                  |
|-----------------|------------------|
| Carcinogenicity | : Not classified |
|-----------------|------------------|

|                       |                  |
|-----------------------|------------------|
| Reproductive toxicity | : Not classified |
|-----------------------|------------------|

|                      |                  |
|----------------------|------------------|
| STOT-single exposure | : Not classified |
|----------------------|------------------|

|                        |                   |
|------------------------|-------------------|
| STOT-repeated exposure | : Not classified. |
|------------------------|-------------------|

|                   |                  |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

### 2-Stroke Oil Synthetic TC+

|                      |                              |
|----------------------|------------------------------|
| Viscosity, kinematic | 77 mm <sup>2</sup> /s @ 40°C |
|----------------------|------------------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

|  |                  |
|--|------------------|
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
|--|------------------|

|   |                  |
|---|------------------|
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |
|---|------------------|

### 12.2. Persistence and degradability

#### 2-Stroke Oil Synthetic TC+

|                               |  |
|-------------------------------|--|
| Persistence and degradability | Not soluble in water, so only minimally biodegradable. |
|-------------------------------|--|

### 12.3. Bioaccumulative potential

No additional information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

In accordance with ADR / IMDG

| ADR                                     | IMDG  |
|---|---|
| <b>14.1. UN number</b>                  |   |
| Not applicable                          | Not applicable  |
| <b>14.2. UN proper shipping name</b>    |   |
| Not applicable                          | Not applicable  |
| <b>14.3. Transport hazard class(es)</b> |   |
| Not applicable                          | Not applicable  |
| <b>14.4. Packing group</b>              |   |
| Not applicable                          | Not applicable  |
| <b>14.5. Environmental hazards</b>      |   |
| Dangerous for the environment : No      | Dangerous for the environment : No<br>Marine pollutant : No |
| No supplementary information available  |   |

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

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### SECTION 16: Other information

#### Indication of changes:

| Section | Changed item                           | Change   | Comments |
|---------|--|----------|----------|
|         | Supersedes                             | Modified |          |
|         | Revision date                          | Modified |          |
| 3       | Composition/information on ingredients | Modified |          |
| 4.1     | After skin contact                     | Modified |          |
| 4.1     | After ingestion                        | Modified |          |
| 6.2     | Environmental precautions              | Modified |          |
| 6.3     | Methods for cleaning up                | Modified |          |
| 6.3     | Other information                      | Modified |          |
| 6.4     | Reference to other sections (8, 13)    | Added    |          |
| 7.1     | Hygiene measures                       | Modified |          |
| 7.2     | Storage temperature                    | Modified |          |
| 7.2     | Storage area                           | Modified |          |
| 7.3     | Specific end uses                      | Added    |          |
| 8.2     | Thermal hazard protection              | Added    |          |
| 8.2     | Eye protection                         | Modified |          |
| 8.2     | Technical measures                     | Modified |          |
| 8.2     | Skin and body protection               | Modified |          |
| 9.1     | Solubility                             | Added    |          |
| 9.1     | Viscosity, kinematic                   | Modified |          |
| 9.1     | Appearance                             | Modified |          |
| 9.1     | Density                                | Modified |          |
| 10.1    | Reactivity                             | Modified |          |
| 10.2    | Chemical stability                     | Modified |          |
| 10.3    | Possibility of hazardous reactions     | Added    |          |
| 10.5    | Incompatible materials                 | Modified |          |
| 10.6    | Hazardous decomposition products       | Modified |          |
| 12.3    | Bioaccumulative potential              | Added    |          |
| 12.4    | Soil                                   | Added    |          |
| 12.6    | Other adverse effects                  | Added    |          |
| 13.1    | Regional legislation (waste)           | Modified |          |

#### Full text of H- and EUH-statements:

|               |  |
|---------------|--|
| Asp. Tox. 1   | Aspiration hazard, Category 1  |
| Eye Dam. 1    | Serious eye damage/eye irritation, Category 1                                  |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1B | Skin sensitisation, category 1B  |
| H304          | May be fatal if swallowed and enters airways.                                  |
| H315          | Causes skin irritation.  |
| H317          | May cause an allergic skin reaction.   |
| H318          | Causes serious eye damage.   |
| EUH208        | Contains MOB calcium branched alkyl phenate. May produce an allergic reaction. |

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|        |   |
|--------|---|
| EUH210 | Safety data sheet available on request. |
|--------|---|

SDS MPM REACH

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*