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Printing date 12/15/2023

# 1 Identification

- · Product identifier
- · Trade name: POWER SYNT 4T SAE 5W/40 JASO MA2
- · Application of the substance / the mixture

Only for proper handling.

Engine oil

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

**MOTOREX AG** 

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CH-4901 Langenthal

Tel. +41 (0)62 919 75 75

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- · Information department: msds@motorex.com
- · Emergency telephone number:

USA + Kanada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

## 2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- NFPA ratings (scale 0 4)



Health = 0 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = \*0 Fire = 1

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

## 3 Composition/information on ingredients

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

| · Dangerous components: |   |          |
|-------------------------|---|----------|
|                         | Distillates (petroleum), hydrotreated heavy paraffinic<br>Aspiration Hazard 1, H304 | 2.5-7.5% |
| l L                     | Mineral oils (mixture)<br>Aspiration Hazard 1, H304                                 | ≥1-≤7.5% |

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#### · 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.

#### 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: If symptoms persist consult 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

- Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- 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).
- Protective Action Criteria for Chemicals

| PAC-1:     |                               |                   |
|------------|-------------------------------|-------------------|
| 68037-01-4 | PAO 6                         | 30 mg/m³          |
| 122-39-4   | diphenylamine                 | 30 mg/m³          |
| 63148-62-9 | Polydimethylsiloxane          | 65 mg/m³          |
| 540-97-6   | Dodecamethylcyclohexasiloxane | 150 mg/m³         |
| 556-67-2   | octamethylcyclotetrasiloxane  | 30 ppm            |
| · PAC-2:   |                               |                   |
| 68037-01-4 | PAO 6                         | 330 mg/m³         |
| 122-39-4   | diphenylamine                 | 180 mg/m³         |
| 63148-62-9 | Polydimethylsiloxane          | 720 mg/m³         |
| 540-97-6   | Dodecamethylcyclohexasiloxane | 1,700 mg/m³       |
| 556-67-2   | octamethylcyclotetrasiloxane  | 68 ppm            |
| · PAC-3:   |                               |                   |
| 68037-01-4 | PAO 6                         | 2,000 mg/m³       |
| 122-39-4   | diphenylamine                 | 220 mg/m³         |
| 63148-62-9 | Polydimethylsiloxane          | 4,300 mg/m³       |
| 540-97-6   | Dodecamethylcyclohexasiloxane | 9,900 mg/m³       |
| 556-67-2   | octamethylcyclotetrasiloxane  | 130 ppm           |
|            |                               | (Contd. on page 3 |

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#### · 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

- · Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special measures required.
- · 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:
- The recommended storage temperature is (deg.C): ≤50°C
- · Storage class: 10
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Control parameters
- Components 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.

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Additional information about design of technical systems: No further data; see section 7.
- · 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.

· Breathing equipment:

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.

- · Eye protection: Goggles recommended during refilling.
- · Body protection: Protective work clothing

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### 9 Physical and chemical properties

· Information on basic physical and chemical properties

General Information

· Color: Brown

Odor: Characteristic
Odor threshold: Not determined.
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.
Flammability (solid, gaseous): Not applicable.

Explosion limits:

Lower: Not determined.
Upper: Not determined.
Flash point: >200 °C (>392 °F)
Decomposition temperature: Not determined.
pH-value: Not determined.

· Viscosity:

• Kinematic: 88.5 mm²/s @ 40 °C (191.3 mm²/s @ 104 °F)

· Consistency

· Dynamic: Not determined.

· Solubility in / Miscibility with

• Water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water):
 Vapor pressure:
 Not determined.
 Not determined.

Vapor pressure:

• **Density at 20 °C (68 °F):** 0.852 g/cm³ (7.11 lbs/gal) (ASTM D 4052)

Relative density
 Vapor density
 Not determined.
 Not determined.

Other informationAppearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

• Danger of explosion: Product does not present an explosion hazard.

· Solvent separation test

· VOC content: 0.00 %
 · VOC (EU) 0.11 %

· Change in condition

Evaporation rate Not determined.

#### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · 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.

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## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.

| · LD/LC50  | values that   | t are relevant for classification: |
|------------|---|------------------------------------|
| 64742-54-  | 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic |                                    |
| 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)           |
|            |   | 1,000 mg/kg/24h (rabbit)           |
|            | LOAEL   | 100 mg/kg/24h (mouse)              |
| Inhalative | LC50 / 4h   | 2.18-5.53 mg/l (rat)               |
|            | NOEL  | 220 mg/m3 (rat)                    |
|            | NOAEL   | 980 mg/m3 (rat)                    |

- on the skin: Based on available data, the classification criteria are not met.
- · on the eye: Based on available data, the classification criteria are not met.
- · Sensitization: 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.
- · Specific target organ toxicity single exposure

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

- · Specific target organ toxicity repeated exposure
- Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · Carcinogenic categories

| · IARC (Int | ernational Agency for Research on Cancer)       |    |
|-------------|---|----|
| 122-39-4    | diphenylamine                                   | 2B |
| · NTP (Nat  | ional Toxicology Program)                       |    |
| None of ti  | he ingredients is listed.                       |    |
| · OSHA-Ca   | a (Occupational Safety & Health Administration) |    |
| None of ti  | he ingredients is listed.                       |    |

### 12 Ecological information

· Toxicity

|        | 3   |
|--------|---|
| · Aqua | tic toxicity:   |
| 64742  | 2-54-7 Distillates (petroleum), hydrotreated heavy paraffinic |
| 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)                       |

· Persistence and degradability No further relevant information available.

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#### · Bioaccumulative potential

#### 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

Partition coefficient | >6 [---] (log Kow) (Bioaccumulation)

- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of 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 packagings:
- · Recommendation: Disposal must be made according to official regulations.

| 14 Transport information   |                                  |
|--|----------------------------------|
| · UN-Number<br>· DOT, ADR/RID/ADN, IMDG, IATA                            | Void                             |
| · UN proper shipping name<br>· DOT, ADR/RID/ADN, IMDG, IATA              | Void                             |
| · Transport hazard class(es)   |                                  |
| · DOT, ADR/RID/ADN, ADN, IMDG, IATA<br>· Class                           | Void                             |
| · Packing group<br>· DOT, ADR/RID/ADN, IMDG, IATA                        | Void                             |
| · Environmental hazards:   | Not applicable.                  |
| · Special precautions for user   | Not applicable.                  |
| · Transport in bulk according to Annex I<br>MARPOL73/78 and the IBC Code | l <b>l of</b><br>Not applicable. |
| UN "Model Regulation":   | Void                             |

#### 15 Regulatory information

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

No further relevant information available.

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|-------------|---|------------|
|             | (extremely hazardous substances):   |            |
|             | ingredients is listed.  |            |
|             | <u> </u>  |            |
|             | B (Specific toxic chemical listings): phenylamine                                     |            |
|             |   |            |
| •           | c Substances Control Act):  | LAGEN      |
| 68037-01-4  |   | ACTIV      |
| 26401-35-4  |   | ACTIV      |
|             | Distillates (petroleum), hydrotreated heavy paraffinic                                | ACTIV      |
|             | Zink-O,O,O',O'-tetrakis(1,3-dimethylbutyl)bis(dithiophosphat)                         | ACTIV      |
|             | Phosphorodithioic acid, mixed O,O-bis (1,3-diethylbutyl and iso-Pr)esters, zinc salts |            |
|             | N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine                               | ACTIV      |
|             | diphenylamine   | ACTIV      |
|             | bis(2-ethylhexyl)amine  | ACTIV      |
|             | Polydimethylsiloxane  | ACTIV      |
|             | 1,2,4-triazole  | ACTIV      |
|             | Dodecamethylcyclohexasiloxane   | ACTIV      |
|             | 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane                                    | ACTIV      |
| 556-67-2    | octamethylcyclotetrasiloxane  | ACTIV      |
| Hazardous   | Air Pollutants  |            |
| None of the | ingredients is listed.  |            |
| Proposition | n 65  |            |
| Chemicals   | known to cause cancer:  |            |
| None of the | ingredients is listed.  |            |
| Chemicals   | known to cause reproductive toxicity for females:                                     |            |
| None of the | ingredients is listed.  |            |
|             | known to cause reproductive toxicity for males:                                       |            |
| None of the | ingredients is listed.  |            |
| Chemicals   | known to cause developmental toxicity:  |            |
| None of the | ingredients is listed.  |            |
| Carcinoger  | ic categories   |            |
| EPA (Envir  | onmental Protection Agency)   |            |
| None of the | ingredients is listed.  |            |
| TLV (Thres  | hold Limit Value)   |            |
| 122-39-4 di | phenylamine   | Α          |
| NIOSH-Ca (  | National Institute for Occupational Safety and Health)                                |            |
| None of the | ingredients is listed.  |            |

#### 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.

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

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

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- · Department issuing SDS: Abteilung Produktsicherheit
- · Date of preparation / last revision 12/15/2023
- Abbreviations and acronyms: Aspiration Hazard 1: Aspiration hazard Category 1
- \* Data compared to the previous version altered.