

1 Identification

- **Product identifier**
- **Trade name:** POWER SYNT 4T SAE 10W/60 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
Bern–Zürich–Strasse 31, Postfach
CH–4901 Langenthal
Tel. +41 (0)62 919 75 75
www.motorex.com
- **Information department:** msds@motorex.com
- **Emergency telephone number:**
USA + Canada: 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 = 1
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *0
Fire = 1
Reactivity = 0

- **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:**

CAS: 64742-54-7 EINECS: 265-157-1 Index number: 649-467-00-8	Distillates (petroleum), hydrotreated heavy paraffinic Aspiration Hazard 1, H304	≥2.5–≤7.5%
CAS: 72623-87-1 EINECS: 276-738-4 Index number: 649-483-00-5	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Aspiration Hazard 1, H304	≥2.5–≤7.5%

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	Mineral oils (mixture)	≥1-≤7.5%
	Aspiration Hazard 1, H304	

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.

The mineral oil contained may be described by one or more of the following: EC 265-157-1 (Reg.nr 01-2119484627-25), EC 265-169-7 (Reg.nr 01-2119471299-27) , EC 265-158-7 (Reg.nr 01-2119487077-29), EC 265-159-2 (Reg.No. 01-2119480132-48).

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:

122-39-4	diphenylamine	6.0 mg/m3
63148-62-9	Polydimethylsiloxane	65 mg/m ³
540-97-6	Dodecamethylcyclotetrasiloxane	150 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	360 mg/m3

PAC-2:

122-39-4	diphenylamine	37 mg/m3
63148-62-9	Polydimethylsiloxane	720 mg/m ³
540-97-6	Dodecamethylcyclotetrasiloxane	1,700 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	530 mg/m3

PAC-3:

122-39-4	diphenylamine	220 mg/m ³
63148-62-9	Polydimethylsiloxane	4,300 mg/m ³
540-97-6	Dodecamethylcyclotetrasiloxane	9,900 mg/m ³

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556-67-2	octamethylcyclotetrasiloxane	1600 mg/m 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 required.
- **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

· Physical state	Liquid
· Color:	Brown
· Odor:	Characteristic
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.
· Flammability:	Not applicable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>200 °C
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	161 mm ² /s @ 40 °C
· Consistency	
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure:	Not determined.
· Vapor pressure:	
· Density at 20 °C:	0.853 g/cm ³ (ASTM D 4052)
· Relative density	Not determined.
· Vapor density	Not determined.

· Other information

· Appearance:	
· 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 % 0.0 g/l / 0.00 lb/gal
· VOC (EU)	0.00 %
· 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 are relevant for classification:

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)
Inhalative	LOAEL	100 mg/kg/24h (mouse)
	LC50 / 4h	2.18-5.53 mg/l (rat)
	NOEL	220 mg/m3 (rat)
	NOAEL	980 mg/m3 (rat)

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) 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/m3 (rat)
	NOEC	220 mg/m3 (rat)

· Primary irritant effect:

· **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 (International Agency for Research on Cancer)

122-39-4 diphenylamine

2B

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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12 Ecological information

· Toxicity

· Aquatic toxicity:

64742-54-7 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)

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)

· Persistence and degradability No further relevant information available.

· 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

· DOT, ADR/RID/ADN, IMDG, IATA

Void

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Safety Data Sheet

acc. to OSHA HCS



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Reviewed on 02/06/2025

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|--|-----------------|
| · UN proper shipping name | |
| · DOT, ADR/RID/ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · DOT, ADR/RID/ADN, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · DOT, ADR/RID/ADN, IMDG, IATA | Void |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | 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.

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

122-39-4 | diphenylamine

- **TSCA (Toxic Substances Control Act):**

883233-91-8	DURASYN 128	ACTIVE
26401-35-4	DTDA	ACTIVE
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	ACTIVE
72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ACTIVE
2215-35-2	Zink-O,O,O',O'-tetrakis(1,3-dimethylbutyl)bis(dithiophosphat)	ACTIVE
84605-29-8	Phosphorodithioic acid, mixed O,O-bis (1,3-diethylbutyl and iso-Pr)esters, zinc salts	ACTIVE
89347-09-1	Alkyl dithio thiadiazole	ACTIVE
91273-04-0	N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine	ACTIVE
122-39-4	diphenylamine	ACTIVE
106-20-7	bis(2-ethylhexyl)amine	ACTIVE
63148-62-9	Polydimethylsiloxane	ACTIVE
288-88-0	1,2,4-triazole	ACTIVE
1860-26-0	2-ethyl-N,N-bis(2-ethylhexyl)hexylamine	ACTIVE
540-97-6	Dodecamethylcyclohexasiloxane	ACTIVE
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	ACTIVE
556-67-2	octamethylcyclotetrasiloxane	ACTIVE

- **Hazardous Air Pollutants**

None of the ingredients is listed.

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· Proposition 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.

· Chemicals 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.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

122-39-4 | diphenylamine

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· **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.

· **Department issuing SDS:** Abteilung Produktsicherheit

· **Date of previous version** 08/25/2023

· **Date of preparation / last revision** 02/06/2025 / -

· **Abbreviations and acronyms:**

Aspiration Hazard 1: Aspiration hazard – Category 1

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