

Version number 2.0

Revision: 06.09.2021

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

· 1.1 Product identifier

- · Trade name: POWER SYNT 4T SAE 10W/50 JASO MA2
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- 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

· Further information obtainable from: 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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements
- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read carefully and follow all instructions.
- P273 Avoid release to the environment.
- *P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- · 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.

 Dangerous components: 		
CAS: 64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	≥25-≤50%
EINECS: 265-157-1	Asp. Tox. 1, H304	
Index number: 649-467-00-8		
Reg.nr.: 01-2119484627-25		
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Trade name: POWER SYNT 4T SAE 10W/50 JASO MA2

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CAS: 128-39-2	2,6-di-tert-butylphenol	0.25-1%
EINECS: 204-884-0	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin	
Reg.nr.: 01-2119490822-33	Irrit. 2, H315	

· 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

• 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 product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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). Dispose contaminated material as waste according to item 13.
- 6.4 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.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • 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

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· 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see section 7.
- 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.

.20 00-2	2,6-di-tert-butylphenol		
Oral	DNEL/general population/Systemic effec	ts/l ona-term	6 75 ma/ka/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Lon	-	11.25 mg/kg/24h (worker)
Inhalative			70.61 mg/m3 (worker)
minalalive	DNEL/ Workers/ Systemic effects/ Eon DNEL/general population/Systemic effect	-	20.9 mg/m3 (consumer)
	DNEL/general population/Systemic enec	ls/Long-lenn	
PNECs			
	2,6-di-tert-butylphenol		
Oral PNE	C / Predators / Secondary poisoning	(predators))	food (secondary poisoning
PNE	C / Aquatic organisms / Freshwater	0.0007-0.01	1 mg/l (aquatic organisms)
PNE	C / Aquatic organisms / Marine water	0.00007-0.0	11 mg/l (aquatic organisms)
	EC/Aquatic org/intermittent ases(freshwater)	0.0045 mg/l	(aquatic organisms)
	C/Aquatic organisms/Sewage treatment t/STP	10 mg/l (aqu	atic organisms)
	EC / Aquatic organisms / Sediment hwater)	0.317-1.56 n	ng/kg (aquatic organisms)
	EC / Aquatic organisms / Sediment rine water)	0.0317-1.56	mg/kg (aquatic organisms)
PNE	C / Terrestrial organism / Soil	0.063-0.746	mg/kg (terrestrial organisms)
Additiona	al information: The lists valid during the r	naking were ι	ısed as basis.
8.2 Expos	sure controls		
Personal General p Keep awa Wash har Do not inh Respirato Not neces Respirato Protectio The glow preparatio Selection degradatio Material o The selec	of the glove material on consideration of on of gloves tion of the suitable gloves does not only d	resistant to the penetrati lepend on the	the product/ the substance/ the on times, rates of diffusion and the material, but also on further man
Personal General p Keep awa Wash har Do not inh Respirato Not neces Respirato Protectio The glove preparatio Selection degradatio Material o of quality substance to be cheo Penetrati	protective equipment: protective and hygienic measures: by from foodstuffs, beverages and feed. ads before breaks and at the end of work. hale gases / fumes / aerosols. by protection: esary if room is well-ventilated. ry protection if formation of aerosol or mis n of hands: e material has to be impermeable and on. of the glove material on consideration of fon of gloves tion of the suitable gloves does not only of and varies from manufacturer to manufact es, the resistance of the glove material can cked prior to the application. on time of glove material t break through time has to be found out b	resistant to the penetrati lepend on the cturer. As the n not be calcu	the product/ the substance/ the on times, rates of diffusion and th material, but also on further mark product is a preparation of sever lated in advance and has therefor

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

.1 Information on basic physical and c	hemical properties
General Information	
ppearance:	
Form:	Fluid
Colour:	Brown
Dour:	Characteristic
Ddour threshold:	Not determined.
H-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	
Pouring point	-43.6 °C
lash point:	>200 °C
lammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
uto-ignition temperature:	Product is not selfigniting.
xplosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
/apour pressure:	Not determined.
Density at 20 °C:	0.862 g/cm ³ (ASTM D 4052)
Relative density	Not determined.
'apour density	Not determined.
vaporation rate	Not determined.
Colubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
/iscosity:	
Dynamic:	Not determined.
Kinematic:	111.8 mm²/s @ 40 °C
olvent separation test:	
VOC (EC)	0.00 %
.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.

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- · 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 v	· LD/LC50 values relevant for classification:		
64742-54-3	7 Distillate	es (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)	
128-39-2 2	2,6-di-tert-l	butylphenol	
Oral	LD50	5,000 mg/kg (rat)	
	NOEL	15 mg/kg/24h (rat)	
	NOAEL	100 mg/kg/24h (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.

· Additional toxicological information:

· CMR effects (carcinogenity, 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

· Aquat	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)
128-39	9-2 2,6-di-tert-butylphenol
LC50	1.4 mg/l/96h (fish)
LC50	0.23 mg/l/21d (aquatic invertebrates)
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	0.45 mg/l/48h (aquatic invertebrates)
	1 mg/l/14d (fish)
	1.1 mg/l/7d (fish)
LC50	0.59 mg/l/24h (aquatic invertebrates)
EC50	1.7-2.3 mg/l/24h (algae / cyanobacteria)
EC50	1.2-3.9 mg/l/96h (algae / cyanobacteria)
EC50	1.4-3.6 mg/l/72h (algae / cyanobacteria)
EC50	0.14 mg/l/21d (aquatic invertebrates)
EC50	1.7-3.5 mg/l/48h (algae / cyanobacteria)
NOEC	0.035 mg/l/21d (aquatic invertebrates)
NOEC	0.64-2.1 mg/l/96h (algae / cyanobacteria)
NOEC	0.3 mg/l/14d (fish)
12.2 Pe	rsistence and degradability No further relevant information available.
· 12.3 Bio	paccumulative potential
64742-5	54-7 Distillates (petroleum), hydrotreated heavy paraffinic
Partitior	n coefficient >6 [] (log Kow) (Bioaccumulation)
	2 2,6-di-tert-butylphenol
Partitior	n coefficient 4.48-4.92 [] (log Kow) (Bioaccumulation)
-	adability <50 % (28d) (Biodegradability) (BIOWIN v4.10)
· Ecotox	bbility in soil No further relevant information available. ical effects: <: Harmful to fish
	nal ecological information:
· Genera	
	azard class 1 (according to Appendix 1 AwSV): slightly hazardous for water allow undiluted product or large quantities of it to reach ground water, water course o
	system.
Harmfu	to aquatic organisms
Harmful • 12.5 Re	to aquatic organisms sults of PBT and vPvB assessment
Harmful • 12.5 Re • PBT: N	to aquatic organisms sults of PBT and vPvB assessment ot applicable.
Harmful • 12.5 Re • PBT: N • vPvB: I	to aquatic organisms sults of PBT and vPvB assessment

- 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.

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

14.1 UN-Number		
ADR/RID/ADN, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name		
ADR/RID/ADN, ADN, IMDG, IATA	Void	

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 14.3 Transport hazard class(es) 		
· ADR/RID/ADN, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
 14.7 Transport in bulk according to An of Marpol and the IBC Code 	nex II Not applicable.	
· UN "Model Regulation":	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.

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

SECTION 16: Other information

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 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

PNEC: Predicted No-Effect Concentration (REACH)

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. purity requirement Relevant phrases H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. · Department issuing SDS: Abteilung Produktsicherheit Abbreviations and acronyms: ADR: Accord relatif au transport international 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)

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(Contd. of page 7) • * 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 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

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Contox of Uno	(Contd. of page
Sector of Use	s: Public domain (administration, education, entertainment, service
craftsmen)	
Product category	
PC16 Heat transfer fluids	
PC17 Hydraulic fluids	
PC24 Lubricants, grease	s. release products
Process category	-, ,
	uction or refinery in closed process without likelihood of exposure
processes with equivalent	
	ction or refinery in closed continuous process with occasional controlle
	th equivalent containment conditions
	stance or mixture (charging and discharging) at non-dedicated facilities
	stance or mixture (charging and discharging) at dedicated facilities
PROC20 Use of function	
Environmental release c	
ERC9a Widespread use	
	of functional fluid (outdoor) ties / processes covered in the Exposure Scenario
	to the Safety Data Sheet.
Conditions of use	to the Salety Data Sheet.
Duration and frequency	5 workdays/week
Physical parameters	
Physical state Fluid	
	estance in the mixture The substance is main component.
Other operational condit	tions
Other operational condit	tions affecting environmental exposure No special measures required
	tions affecting consumer exposure Not required.
•	ions affecting consumer exposure during the use of the product
Not applicable.	
Risk management meas	ures
Worker protection	a managuran Na ananial managuran raguirad
	e measures No special measures required.
	asures No special measures required. sures No special measures required.
	protection No special measures required.
Environmental protectio	
Air No special measures r	
Water No special measure	
	re that waste is collected and contained.
	pose of product residues with household waste.
	ied and uncleaned packaging
Exposure estimation	
Consumer Not relevant for	or this Exposure Scenario.
	m users. No further relevant information available.
Annex: Exposure sc	enario 3
-	
	re scenario Private use of lubricants and greases in vehicles or machine
	nsumer uses: Private households / general public / consumers
	Lubricants, greases, release products
Environmental release c	
ERC9a Widespread use	
	of functional fluid (outdoor)
Description of the activity	ties / 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.

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· Physical parameters	
Physical state Fluid	
· Concentration of the substance in the mixture The substance is ma	in component.
· Other operational conditions	
• Other operational conditions affecting environmental exposure No	o special measures required.
· Other operational conditions affecting consumer exposure Not rec	quired.
· 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 was	ste.
 Waste type Partially emptied and uncleaned packaging 	
· Exposure estimation	
 Consumer Not relevant for this Exposure Scenario. 	
· Guidance for downstream users No further relevant information avail	lable.