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

- · 1.1 Product identifier
- · Trade name: POWER SYNT 2T
- **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 Engine oil Only for proper handling.
- · 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

The product is not classified, according to the GB CLP regulation.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

EC number: 926-141-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes,	25-50%
Reg.nr.: 01-2119456620-43	cycloalkanes, <2% aromatics	
	Asp. Tox. 1, H304, EUH066	

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

aliphatic hydrocarbons

≥15 - <30%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: No special measures required.

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- After inhalation: Supply fresh air; consult doctor in case of complaints.
 After skin contact: Remove residues with soap and water. Remove contaminated clothing immediately.
 After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Do not induce vomitting. Do not take in resorption stimulating agents. Consult a physician who will decide on need and method of emptying the stomach.
- **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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 5.2 Special hazards arising from the substance or mixture
- In case of fire carbon, sulphur and nitrogen oxides can be formed.
- 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 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).

6.4 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.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Vapours of this product are heavier than air and will collect

Vapours of this product are heavier than air and will collect in low areas such as pits, storage tanks, and other confined areas.

Use only in well ventilated areas.

No special measures required.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

- · 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:

The recommended storage temperature is (deg.C): ≤50°C

Store containers closed and protect against rain, dust, heat and other atmospheric influences. Store in cool, dry well ventilated area away from sources of ignition and heat.

· 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
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- · 8.1 Control parameters
- 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.

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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.

· Respiratory protection:

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. **Hand protection**

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/face protection Goggles recommended during refilling
- Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and che	emical properties	
· General Information		
· Physical state	Fluid	
Colour:	Red	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	Undetermined.	
Boiling point or initial boiling point and		
boiling range	200 °C (DIN EN ISO 3405)	
· Flammability	Not applicable.	
· Lower and upper explosion limit		
· Lower:	0.6 Vol %	
· Upper:	6.5 Vol %	
Flash point:	98 °C	
Ignition temperature:	210 °C (DIN 51794)	
Decomposition temperature:	Not determined.	
· pH	Not determined.	
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· Viscosity:	
Kinematic viscosity	51.3 mm²/s @ 40 °C (DIN 51562-1)
· Consistency	
· Dynamic:	Not determined.
Solubility	
· water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log	
value)	Not determined.
· Heat Capacity	
· Vapour pressure at 20 °C:	1 hPa
· Density and/or relative density	
· Density at 20 °C:	0.873 g/cm³ (ASTM D 4052)
· Relative density	Not determined.
· Vapour density	Not determined.
	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
 Important information on protection of heat 	alth
and environment, and on safety.	
· Explosive properties:	Product does not present an explosion hazard.
Solvent separation test:	
· VOC (EC)	25.50 %
· Change in condition	
· Solidification point:	- 45 °C
· Evaporation rate	Not determined.
Information with regard to physical haza	ard
classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
	Void
· Gases under pressure · Flammable liquids	Void
· Flammable inquids · Flammable solids	Void
· Self-reactive substances and mixtures	Void Void
· Pyrophoric liquids	
· Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	17.14
flammable gases in contact with water	Void
• Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
Corrosive to metals	Void
 Desensitised explosives 	Void

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.
- **10.5 Incompatible materials:** No further relevant information available.

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• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

• **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008** • **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Hydrocar	bons C11-	C14, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
-		
Oral	LD50	5,000 mg/kg (rat)
	NOAEL	1,000-5,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	5.28 mg/l (rat)
		200 ppm (rat)
	NOAEC	275-10,400 mg/m3 (rat)
<u> </u>		

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.

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.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

arbons, C11-C14, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
2-5 mg/l/96h (fish)
2-5 mg/l/48h (fish)
5-17 mg/l/24h (fish)
1.4 mg/l/48h (aquatic invertebrates)
4.6 mg/l/24h (aquatic invertebrates)
1-3 mg/l/24h (algae / cyanobacteria)
1-3 mg/l/72h (algae / cyanobacteria)
0.81-0.89 mg/l/21d (aquatic invertebrates)
1.22 mg/l/21d (aquatic invertebrates)
1,000 mg/l/72h (algae / cyanobacteria)
rsistence and degradability No further relevant information available. baccumulative potential No further relevant information available. bility in soil No further relevant information available. sults of PBT and vPvB assessment bit applicable. lot applicable. docrine disrupting properties duct does not contain substances with endocrine disrupting properties.

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· 12.7 Other adverse effects

- · Additional ecological information:
- · General notes:

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- · 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.

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 packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

Void
Void
Void
Void
No
Not applicable.
to Not applicable.
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.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

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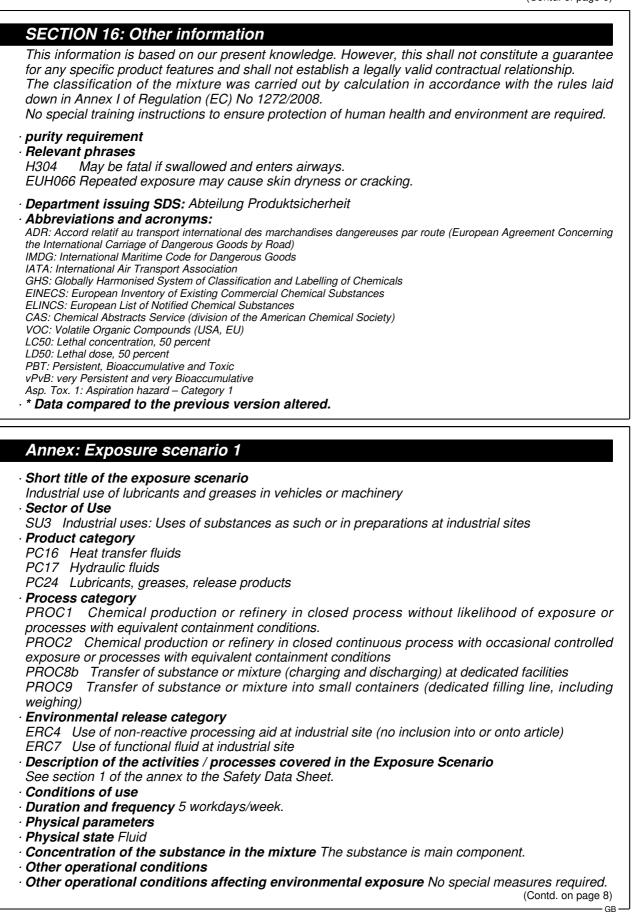
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Other energianal conditions offection concurrent our Alstein line	(Contd. of page 7
Other operational conditions affecting consumer exposure Not required. Other operational conditions affecting consumer exposure during the us	a of the product
Not applicable.	e or the product
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	
Disposal must be made according to official regulations.	
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	
Sector of Use	
SU22 Professional uses: Public domain (administration, education, ente	ertainment, services
craftsmen)	
Product category	
PC16 Heat transfer fluids	
PC17 Hydraulic fluids	
PC24 Lubricants, greases, release products	
Process category	hand of avpacura a
PROC1 Chemical production or refinery in closed process without likeli processes with equivalent containment conditions.	noou of exposure of
PROC2 Chemical production or refinery in closed continuous process with	occasional controller
exposure or processes with equivalent containment conditions	
PROC8a Transfer of substance or mixture (charging and discharging) at non-	dedicated facilities
PROC8b Transfer of substance or mixture (charging and discharging) at dedi	
PROC20 Use of functional fluids in small devices	
Environmental release category	
ERC9a Widespread use of functional fluid (indoor)	
ERC9b Widespread use of functional fluid (outdoor)	
Description of the activities / processes covered in the Exposure Scenari	0
See section 1 of the annex to the Safety Data Sheet.	
Conditions of use	
Duration and frequency 5 workdays/week.	
Physical parameters	
	oonent.
Concentration of the substance in the mixture The substance is main comp	
Concentration of the substance in the mixture The substance is main comp Other operational conditions	
Physical state Fluid Concentration of the substance in the mixture The substance is main comp Other operational conditions Other operational conditions affecting environmental exposure No special	l measures required.
Concentration of the substance in the mixture The substance is main comp Other operational conditions Other operational conditions affecting environmental exposure No special Other operational conditions affecting consumer exposure Not required.	
Concentration of the substance in the mixture The substance is main comp Other operational conditions Other operational conditions affecting environmental exposure No specia Other operational conditions affecting consumer exposure Not required. Other operational conditions affecting consumer exposure during the us	
Concentration of the substance in the mixture The substance is main comp Other operational conditions Other operational conditions affecting environmental exposure No specia	

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· 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** Disposal must be made according to official regulations.
- 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 3

- · Short title of the exposure scenario Private use of lubricants and greases in vehicles or machines
- · Sector of Use SU21 Consumer uses: Private households / general public / consumers
- Product category PC24 Lubricants, greases, release products
- · Environmental release category
- ERC9a Widespread use of functional fluid (indoor)
- ERC9b Widespread use of functional fluid (outdoor)
- **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

Disposal must be made according to official regulations.

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.

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