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

- · 1.1 Product identifier
- · Trade name: V-SYNT 4T 20W/50
- · 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 (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:				
	Mineral oils (mixture) Asp. Tox. 1, H304	≥1-≤7.5%		
CAS: 64742-54-7 EINECS: 265-157-1 Index number: 649-467-00-8 Reg.nr.: 01-2119484627-25		≥2.5-≤3%		
CAS: 36878-20-3 EINECS: 253-249-4 Reg.nr.: 01-2119488911-28	Reaction products of Benzeneamine, N-phenyl- with nonene (branched) Aquatic Chronic 4, H413	≥0.25-≤2.5%		

· 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.

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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.
- 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 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

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 measures required.
- · 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:
- The recommended storage temperature is (deg.C): ≤50°C
- · Storage class: 10
- · 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

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.

DNELs				
36878-20-3 Reaction products of Benzeneamine, N-phenyl- with nonene (branched)				
Oral	DNEL/general population/Systemic effects/Long-term	0.25 mg/kg/24h (consumer)		
Dermal	DNEL / Workers / Systemic effects / Long-term	5 mg/kg/24h (worker)		
	DNEL/general population/Systemic effects/Long-term	2.5 mg/kg/24h (consumer)		

· PNECs

36878-20-3 Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

PNEC / Aquatic organisms / Freshwater
PNEC / Aquatic organisms / Marine water
PNEC/Aquatic org/intermittent releases(freshwater)
PNEC/Aquatic organisms/Sewage treatment plant/STP
PNEC / Aquatic organisms / Sediment (freshwater)
PNEC / Aquatic organisms / Sediment (freshwater)
PNEC / Aquatic organisms / Sediment (marine water)
PNEC / Terrestrial organism / Soil

0.1 mg/l (aquatic organisms)
1 mg/l (aquatic organisms)
2 mg/kg (aquatic organisms)

- · 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

- GF



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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· **Physical state** Fluid

Colour: yellow brown
 Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range Undetermined.
• Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: >200 °C

• Decomposition temperature: Not determined. Not determined.

Viscosity:

• Kinematic viscosity 141 mm²/s @ 40 °C

· 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: Not determined.

· Density and/or relative density

• Density at 20 °C: 0.869 g/cm³ (ASTM D 4052)

Relative densityVapour densityNot determined.Not determined.

9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

• Explosive properties: Product does not present an explosion hazard.

· Solvent separation test:

· **VOC (EC)** 0.00 %

· Change in condition

· Evaporation rate Not determined.

Information with regard to physical hazard

classes Void · Explosives · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void Void

Self-reactive substances and mixtures
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures

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· Substances and mixtures, which emit		
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.
- 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

Endocrine disrupting properties
 None of the ingredients is listed.

· LD/LC50	· LD/LC50 values relevant for classification:			
64742-54-	64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic			
Oral LD50 5,000 mg/kg (rat)		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)		
36878-20-	36878-20-3 Reaction products of Benzeneamine, N-phenyl- with nonene (branched)			
Oral	LD50	5,000 mg/kg (rat)		
	NOEL	100 mg/kg/24h (rat)		
Dermal	LD50	2,000 mg/kg (rat)		
11.2 Information on other hazards				

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SECTION 12: Ecological information

· 12.1 Toxicity

Aquati	c 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)	
36878-20-3 Reaction products of Benzeneamine, N-phenyl- with nonene (branched)		
LC50	100 mg/l/96h (fish)	
LC0	58 mg/l/96h (fish)	
LC100	100 mg/l/96h (fish)	
EC50	100 mg/l/24h (aquatic invertebrates)	
EC50	870 mg/l/96h (algae / cyanobacteria)	
EC50	100-600 mg/l/72h (algae / cyanobacteria)	
EC50	100 mg/l/48h (aquatic invertebrates)	
NOEC	10-100 mg/l/72h (algae / cyanobacteria)	
NOEC	33 mg/l/96h (algae / cyanobacteria)	

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential

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

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

36878-20-3 Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Partition coefficient 7.5-11.7 [---] (log Kow) (Bioaccumulation)
Biodegradability 1 % (28d) (Biodegradability) (OECD 301 B)

- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 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.

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.

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· Uncleaned packaging:

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

SECTION 14: Transport information		
· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR/RID/ADN, IMDG, IATA	Void	
· 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 Maritime transport in bulk according IMO instruments	ng to 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.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 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.

- · purity requirement
- · Relevant phrases

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

- · 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)

VOC: Volatile Organic Compounds (USA, EU)

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DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

* 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

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

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- · 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, entertainment, services, craftsmen)

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

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

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 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.

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· 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.

GB