



## SAFETY DATA SHEET

### PROFI-CAR SYNTH-TECH SAE 5W-50

#### Section 1: Identification of the substance / mixture and of the company/undertaking

##### 1.1 Product identifier

Product name: SYNTH-TECH SAE 5W-50

Productcode: 12120

Synonyme:

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Engine Oil

##### 1.3 Details of the supplier of the safety data sheet

Company name / contact: PROFI-TECH GmbH  
Otto-Lilienthal-Straße 2  
88046 Friedrichshafen  
Tel. +49 7541/40 286-0  
Fax +49 7541/40 286-99  
info@profi-tech.com

##### 1.4 Emergency telephone number

**24-hour emergency contact number out side USA/Canada: + 49 70024112112 (PRT)**

**24-hour emergency contact number in side USA/Canada: +11 49 70024112112 (PRT)**

#### Section 2: Hazards identification

##### 2.1 Classification of the substance or mixture

Classification under CHIP: This mixture is not classified as hazardous according to Directive 1999/45/EC.

Classification under CLP: This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

Most important adverse effects

##### 2.2 Label elements (DSD/DPD)

Label elements under CLP: EUH210 Safety data sheet available on request.

Hazard statements:

EUH210 Safety data sheet available on request.

Hazard pictograms:

Precautionary statements:



Risk phrases:

Safety phrases:

Precautionary phrases:

### 2.3 Other hazards

PBT: Not applicable.

## Section 3: Composition / information on ingredients

### 3.2. Mixtures

Hazardous ingredients:

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based			72,85 %
	276-738-4	649-483-00-5	01-2119474889-13	
	Asp. Tox. 1; H304			
	Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts			0,1-1 %
	270-608-0			
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411			
93819-94-4	zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)			0,1-1 %
	298-577-9		01-2119543726-33	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411			

Further Information: All concentrations are quoted as mass percentages for liquids and volume percentages for gases. Other substances which are not classified as dangerous are contained up to 100 %. Full text of R- and H-phrases: see section 16.

## Section 4: First aid measures

### 4.1. Description of first aid measures

Inhalation: No special measures are necessary.

Skin contact: After contact with skin, wash immediately with plenty of water and soap.

Eye contact: Rinse immediately carefully and thoroughly with eye-bath or water.

Swallowing: Rinse mouth immediately and drink plenty of water.

### 4.2. Most important symptoms and effects, both acute and delayed

Skin contact: No data available.

Eye contact: No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: No data available.



## **Section 5: Fire-fighting measures**

### 5.1. Extinguishing media

Extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings. Water mist Foam. Powder

### 5.2. Special hazards arising from the substance or mixture

Exposure hazards: Non-flammable.

### 5.3. Advice for fire-fighters

Advice for fire-fighters: In case of fire: Wear self-contained breathing apparatus.

## **Section 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protection equipment.

### 6.2. Environmental precautions

Environmental precautions: Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Reference to other sections: See section 8 & 13.

## **Section 7: Handling and storage**

### 7.1. Precautions for safe handling

Handling requirements: No special measures are necessary.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed.  
storage temperature <40°C

Suitable packaging:

### 7.3. Specific end use(s)

Observe technical data sheet.



## Section 8: Exposure controls / personal protection

### 8.1. Control parameters

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
93819-94-4	zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)			
Worker DNEL, long-term	dermal	systemic	0,58 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	8,31 mg/m³	
Consumer DNEL, long-term	dermal	systemic	0,29 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	2,11 mg/m³	
Consumer DNEL, long-term	oral	systemic	0,24 mg/kg bw/day	

#### PNEC values

CAS No	Substance	Value
93819-94-4	zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	
Soil	0,00528 mg/kg	

### 8.2 DNEL/PNEC:

DNEL/PNEC:

### 8.3. Exposure controls

Engineering measures: Provide adequate ventilation as well as local exhaust at critical locations.

Respiratory protection: Take off immediately all contaminated clothing. Wash hands before breaks and after work. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

Hand protection: When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves..

Eye protection: Wear suitable protective clothing.

Skin protection: The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes. with lead protection cap. German Industry Norms (DIN) / European Norms (EN): DIN EN 344

Environmental: Technical measures to prevent exposure. Organisational measures to prevent exposure.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

State: liquid

Colour: yellow, brown

Odour: Characteristic

Evaporation

Solubility in water:

Also soluble in:



Viscosity: 120 mm<sup>2</sup>/s

Kinematic viscosity:

Viscosity test method:

Boiling point / range°C:

Flammability limits %:

Lower explosion limits: 0,6 vol. %

Upper explosion limits: 6,5 vol. %

Flash point°C: > 220 °C ASTM D 92

Autoflammability°C:

Vapour pressure:

Relative density: 0,853 g/cm<sup>3</sup>

VOC g/l:

#### 9.2. Other information

Other information: No further relevant information available.

### **Section 10: Stability and reactivity**

#### 10.1. Reactivity

Reactivity: No hazardous reaction when handled and stored according to provisions..

#### 10.2. Chemical stability

Chemical stability: The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

#### 10.4. Conditions to avoid

Conditions to avoid: none

#### 10.5. Incompatible materials

Materials to avoid: Oxidising agent, strong acids. Bases.

#### 10.6. Hazardous decomposition products

Haz. decomp. products: No known hazardous decomposition products.



## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose		Species	Source
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based				
	oral	LD50	>5000 mg/kg	Rat	OECD 401
	dermal	LD50	>2000 mg/kg	Rabbit	OECD 402
	inhalative (4 h) vapour	LC50	>5,53 mg/l	Rat	OECD 403
	Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts				
	oral	LD50	3600 mg/kg	Rat	
	dermal	LD50	20000 mg/kg	Rat	
93819-94-4	zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)				
	oral	LD50	2600 mg/kg	Rat	
	dermal	LD50	>3160 mg/kg	Rabbit	OECD 402

## Section 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
	Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts				
	Acute fish toxicity	LC50 4,5 mg/l	96 h	Cyprinodon variegatus	OECD 203
	Acute crustacea toxicity	EC50 23 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
93819-94-4	zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)				
	Acute fish toxicity	LC50 4,5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 403

### 12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	1,5%		
	Biodegradation			

### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	>6
	Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	0,69
93819-94-4	zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	0,9

### 12.4. Mobility in soil

Mobility: There are no data available on the preparation/mixture itself.

### 12.5. Results of PBT and vPvB assessment

PBT identification: Not applicable.



#### 12.6. Other adverse effects

Other adverse effects: Effects in sewage plants: Mechanical separation in a suitable sewage plant is possible.

### **Section 13: Disposal considerations**

#### 13.1. Waste treatment methods

Disposal operations: Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)". Observe mixture permissions according to "Altölverordnung (Waste oil directive)". Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Recovery operations:

Waste code number: 130205

Disposal of packaging:

NB: Non contaminated packagings may be recycled.

### **Section 14: Transport information**

No dangerous good in sense of these transport regulations.

### **Section 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

WGK: Water contaminating class (D): 2 - water contaminating

#### 15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

### **Section 16: Other information**

#### 16.1 Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010 indicates text in the SDS which has changed since the last revision.

Abbreviations and acronyms

ADR: Accord européen sur le transport 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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.



Relevant H and EUH statements (number and full text)

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.