



VP 922

Revision: 02.07.2026

Page 1 of 12

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

1.1. Product identifier

VP 922

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

Use of the substance/mixture

Lubricating agent

1.3. Details of the supplier of the safety data sheet

Company name:	Chemie-Technik GmbH	
	ELKALUB Hochleistungs-Schmierstoffe	
Street:	Robert-Bosch-Straße 19	
Place:	D-72189 Vöhringen	
Telephone:	+49(0)7454 9652-0	
E-mail:	info@elkalub.com	
Contact person:	Fabian Braun	Telephone: -25
E-mail:	fabian.braun@elkalub.com	
Internet:	www.elkalub.com	

1.4. Emergency telephone number:

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463
National Health Service: 111 England/Wales (NHS Direct): 111 Scotland (NHS 24): 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aquatic Chronic 3; H412
PBT; EUH440

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

O,O,O-triphenyl phosphorothioate

Signal word: Danger

Hazard statements

EUH440	Accumulates in the environment and living organisms including in humans.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling

Contains 0,1 - < 1 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



VP 922

Revision: 02.07.2026

Page 2 of 12

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
68037-01-4	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated			60 - < 65 %
	500-183-1		01-2119486452-34	
	Asp. Tox. 1; H304			
126019-82-7	O,O,O-tris(2(or 4)-C 9-10-isoalkylphenyl) phosphorothioate			0.1 - < 1 %
	406-940-1	015-171-00-7	01-0000015643-71	
	Repr. 2, Aquatic Chronic 2; H361 H411			
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			0.1 - < 1 %
	270-128-1		01-2119491299-23	
	Repr. 2, Aquatic Chronic 3; H361f H412			
192268-65-8	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives			0.1 - < 1 %
	421-820-9	607-501-00-9		
	Repr. 2, Aquatic Chronic 4; H361d H413			
597-82-0	O,O,O-triphenyl phosphorothioate			0.1 - < 1 %
	209-909-9		01-2119979545-21	
	Aquatic Chronic 1, PBT; H410 EUH440			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
68037-01-4	500-183-1	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	60 - < 65 %
		oral: LD50 = 36000 mg/kg	
126019-82-7	406-940-1	O,O,O-tris(2(or 4)-C 9-10-isoalkylphenyl) phosphorothioate	0.1 - < 1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
68411-46-1	270-128-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	0.1 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
597-82-0	209-909-9	O,O,O-triphenyl phosphorothioate	0.1 - < 1 %
		Aquatic Chronic 1; H410: M=10	

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

After contact with skin

Take off contaminated clothing and wash it before reuse.

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

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

No information available.



VP 922

Revision: 02.07.2026

Page 3 of 12

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.
Extinguishing powder
Carbon dioxide (CO₂)
Foam

Unsuitable extinguishing media

Water spray jet
Water

5.2. Special hazards arising from the substance or mixture

Section 10
Hazardous combustion products

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.
Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.
Remove all sources of ignition.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Clean contaminated articles and floor according to the environmental legislation.
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13
Section 10: Stability and Reactivity

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

When using do not eat, drink or smoke.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.



VP 922

Revision: 02.07.2026

Page 4 of 12

Wash hands and face before breaks and after work and take a shower if necessary . When using do not eat, drink, smoke, sniff.

Further information on handling

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

Advices on general occupational hygiene

Wash contaminated clothing prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Combustible solids that cannot be assigned to any of the above storage classes

Further information on storage conditions

0 °C - 40 °C

7.3. Specific end use(s)

Lubricating agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			
Worker DNEL, long-term	dermal	systemic	0,62 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0,31 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	1,09 mg/m³	
Consumer DNEL, long-term	dermal	systemic	0,31 mg/kg bw/day	

PNEC values

CAS No	Substance	Value
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
Freshwater		0,051 mg/l
Marine water		0,0051 mg/l
Freshwater sediment		9320 mg/kg
Marine sediment		932 mg/kg
Soil		1860 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls





VP 922

Revision: 02.07.2026

Page 5 of 12

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Eye glasses with side protection

Hand protection

Recommended glove articles :EN ISO 374; CAT III

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4mm

Breakthrough time: >480min

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.

Skin protection

Use of protective clothing.

Respiratory protection

When used as intended, no respiratory protection is required

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Paste
Colour: beige

Test method

Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH-Value:	No data available
Viscosity / kinematic:	No data available
Water solubility:	practically insoluble
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	< 0,0001 hPa
(at 20 °C)	
Density (at 25 °C):	0,92 g/cm³
Bulk density:	No data available
Relative vapour density:	not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Sustained combustibility:

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available



VP 922

Revision: 02.07.2026

Page 6 of 12

Oxidizing properties

Not oxidising.

Other safety characteristics

Evaporation rate:	not determined
Solid content:	not determined
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
Viscosity / dynamic:	1500-2600 mPa·s DIN 51810

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

The product is chemically stable under recommended conditions of storage, use and temperature.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Oxidizing agent

10.6. Hazardous decomposition products

Carbon dioxide Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on hazard classes

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix tested

	Dose	Species	Source
LD50, oral	> 2000 mg/kg		
LD50, dermal	> 2000 mg/kg		

ATEmix calculated

ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



VP 922

Revision: 02.07.2026

Page 7 of 12

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68037-01-4	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated				
	oral	LD50 36000 mg/kg	Rat		
126019-82-7	O,O,O-tris(2(or 4)-C 9-10-isoalkylphenyl) phosphorothioate				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects 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.

11.2. Information on other hazards

Endocrine disrupting properties

Based on available data, the classification criteria are not met.

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

VP 922

Revision: 02.07.2026

Page 8 of 12

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
126019-82-7	O,O,O-tris(2(or 4)-C 9-10-isoalkylphenyl) phosphorothioate					
	Acute fish toxicity	LC50 > 25 mg/l	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 > 100 mg/l	72 h			
	Acute bacteria toxicity	EC50 > 100 mg/l ()	3 h	Activated sludge		
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene					
	Acute crustacea toxicity	EC50 10 mg/l	48 h	Daphnia magna (Big water flea)		
597-82-0	O,O,O-triphenyl phosphorothioate					
	Aquatic toxicity	Data lacking				

12.2. Persistence and degradability

No data available

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
126019-82-7	O,O,O-tris(2(or 4)-C 9-10-isoalkylphenyl) phosphorothioate				
	OECD 301B	2-4 %	28		
	According to experiences this product is inert and not degradable. Poorly biodegradable.				

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
126019-82-7	O,O,O-tris(2(or 4)-C 9-10-isoalkylphenyl) phosphorothioate	20
192268-65-8	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	4,79-6,97

BCF

CAS No	Chemical name	BCF	Species	Source
192268-65-8	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	>500		

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Accumulates in the environment and living organisms including in humans. (O,O,O-triphenyl phosphorothioate)

12.6. Endocrine disrupting properties

Based on available data, the classification criteria are not met.

No data available

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods



VP 922

Revision: 02.07.2026

Page 9 of 12

Disposal recommendations

Do not allow to enter into surface water or drains.

Dispose of waste according to "Kreislaufwirtschaftsgesetz (KrWG)".

Dispose of waste according to applicable legislation.

The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented.

Consult the appropriate local waste disposal expert about waste disposal.

List of Wastes Code - residues/unused products

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

List of Wastes Code - used product

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information



VP 922

Revision: 02.07.2026

Page 10 of 12

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives; O,O,O-triphenyl phosphorothioate

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive
2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,13,14,15,16.



VP 922

Revision: 02.07.2026

Page 11 of 12

Abbreviations and acronyms

Asp. Tox. 1: Aspiration hazard, hazard category 1
 Repr. 2: Reproductive toxicity, hazard category 2
 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2
 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3
 Aquatic Chronic 4: Hazardous to the aquatic environment, long-term hazard category: Chronic 4
 PBT: Persistent, Bioaccumulative and Toxic properties
 CLP: Classification, labelling and Packaging
 REACH: Registration, Evaluation and Authorization of Chemicals
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 UN: United Nations
 CAS: Chemical Abstracts Service
 DNEL: Derived No Effect Level
 DMEL: Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 ATE: Acute toxicity estimate
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 LL50: Lethal loading, 50%
 EL50: Effect loading, 50%
 EC50: Effective Concentration 50%
 ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-concentration factor
 PBT: persistent, bioaccumulative, toxic
 vPvB: very persistent, very bioaccumulative
 ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the international carriage of dangerous goods by rail
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
 intérieures)
 IMDG: International Maritime Code for Dangerous Goods
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 SVHC: Substance of Very High Concern
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Classification for mixtures and used evaluation method

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method
PBT; EUH440	Calculation method

Relevant H and EUH statements (number and full text)

H304 May be fatal if swallowed and enters airways.
 H361 Suspected of damaging fertility or the unborn child.
 H361d Suspected of damaging the unborn child.
 H361f Suspected of damaging fertility.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.



VP 922

Revision: 02.07.2026

Page 12 of 12

H413 May cause long lasting harmful effects to aquatic life.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)