

Safety data sheet

according to 1907/2006/EC, Article 31; 2020/878/EC

Printing and revision 31.03.2025

Version number 25 (replaces version 24)

Modification: 31.03.2025

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

- **1.1 Product identifier**
- **Trade name:** **FLUID-setral-SHT 220S**
- **Article number:** 060610
- **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** Lubricant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 SETRAL Chemie GmbH
 Salzsteinstrasse 4
 D-82402 SEESHAUPT
 Tel: 08801/97-10
 Fax: 08801/97-30
- **Further information obtainable from:** msds@setral.net
- **1.4 Emergency telephone number:** In case of emergency immediately call the poison control centre.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS09

Aquatic Chronic 2 H411 Toxic 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**



GHS09

- **Signal word** Void
- **Hazard statements**
 H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
 P273 Avoid release to the environment.
 P391 Collect spillage.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**



- **PBT:**
- | | |
|----------|----------------------------------|
| 597-82-0 | O,O,O-triphenyl phosphorothioate |
|----------|----------------------------------|

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of synthetic oils with additives

Dangerous components:

CAS: 68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	0.5-2.5%
EINECS: 270-128-1	 Repr. 2, H361f	
CAS: 597-82-0	O,O,O-triphenyl phosphorothioate	0.5-<2.5%
EINECS: 209-909-9	 Aquatic Chronic 1, H410 (M=10) PBT	

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CAS: 51772-35-1	N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine	0.5-2.5%
EINECS: 257-406-8	Aquatic Chronic 4, H413	

SVHC

597-82-0 | O,O,O-triphenyl phosphorothioate

· **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:** Take affected persons out into the fresh air.· **After inhalation:** Supply fresh air; consult doctor in case of problems· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.· **After swallowing:** Do not induce vomiting; call for medical help immediately.· **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, sand, extinguishing powder. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** Water· **5.2 Special hazards arising from the substance or mixture** Do not breathe gases and smokes from fire· **5.3 Advice for firefighters**· **Protective equipment:** Mount respiratory protective device.**SECTION 6: Accidental release measures**· **6.1 Personal precautions, protective equipment and emergency procedures**

Product spills can make surfaces slippery

· **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· **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 section 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 measures required.

No special precautions are necessary if used correctly.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.· **7.2 Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.· **Information about storage in one common storage facility:** Store away from oxidising agents.· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.· **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.

· **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:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not required.

· **Hand protection**



Protective gloves

· Material of gloves

Nitrile rubber, NBR

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

Safety glasses

SECTION 9: Physical and chemical properties**· 9.1 Information on basic physical and chemical properties****· General Information**

· **Physical state**

Liquid

· **Colour:**

Yellow - Orange

· **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:**

265 °C

· **Decomposition temperature:**

Not determined.

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility**

Soluble in hydrocarbons.

· **water:**

Insoluble.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure:**

Not determined.

· **Density and/or relative density**

· **Density at 20 °C:**

0.911 g/cm³

· **Relative density**

Not determined.

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· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· 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:** Stable at environment temperature.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
 Strong oxyding agents
 No further relevant information available.
- **10.6 Hazardous decomposition products:** Hydrocarbons, CO, CO2

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:

68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Oral	LD50	>5,000 mg/kg (Rat) (OCDE 401)
Dermal	LD50	>2,000 mg/kg (Rat) (OCDE 402)

597-82-0 O,O,O-triphenyl phosphorothioate

Oral	LD50	>10,000 mg/kg (Rat) (OCDE 401)
Dermal	LD50	>2,000 mg/kg (Rat) (OCDE 402)

51772-35-1 N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine

Oral	LD50	>2,000 mg/kg (Rat) (OCDE 423)
Dermal	LD50	>2,000 mg/kg (Rat) (OCDE 402)

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- **Primary irritant effect:**
- **Skin corrosion/irritation**
No irritant effects known
Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Weakly irritant
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
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no substances with endocrine properties equal to or greater than 0.1% are contained

SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:**

68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

CE10	1.69 mg/l /21d (Daphnia)
CL50-96H	>100 mg/l (Fish) (OCDE 203)
CE50	>100 mg/l /72h (Algae) (OCDE 201)
	51 mg/l /48h (Daphnia) (OCDE 202)
NOEC	>10 mg/l /72h (Algae) (OCDE 201)

597-82-0 O,O,O-triphenyl phosphorothioate

CL50-96H	>100 mg/l (Fish) (OCDE 203)
CE50r	>100 mg/l (Algae) (OCDE 201)
CE50	>100 mg/l (Daphnia) (OCDE 202)
Biodegradability	19.3 % /29d (Biodegradability)
NOEC	>0.000724 mg/l /21 da (Daphnia)
	0.0017 mg/l /97d (Fish)

51772-35-1 N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine

CL50-96H (static)	>100 mg/l (Fish) (OCDE 203)
CE50 (static)	>100 mg/l (Algae) (72h OCDE 201)
	>100 mg/l (Daphnia) (OCDE 202 48h)
NOEC (static)	100 mg/l (Algae) (72h OCDE 201)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**

· **PBT:**

597-82-0	O,O,O-triphenyl phosphorothioate
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- **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:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Toxic for aquatic organisms

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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.· **European waste catalogue**

13 02 06* synthetic engine, gear and lubricating oils

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**· **14.1 UN number or ID number**· **ADR, IMDG, IATA**

UN3082

· **14.2 UN proper shipping name**· **ADR**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Butene, homopolymer, O,O,O-triphenyl phosphorothioate)

· **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Butene, homopolymer, O,O,O-triphenyl phosphorothioate, Zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)), MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Butene, homopolymer, O,O,O-triphenyl phosphorothioate)

· **14.3 Transport hazard class(es)**· **ADR**· **Class**

9 (M6) Miscellaneous dangerous substances and articles.

· **Label**

9

· **IMDG, IATA**· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **14.4 Packing group**· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**· **Marine pollutant:**

No

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special marking (IATA):**

Symbol (fish and tree)

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

· **Hazard identification number (Kemler code):**

90

· **EMS Number:**

F-A,S-F

· **Stowage Category**

A

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

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· Transport/Additional information:**· ADR****· Limited quantities (LQ)**

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· Transport category

3

· Tunnel restriction code

(-)

· IMDG**· Limited quantities (LQ)**

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BUTENE, HOMOPOLYMER, O,O,O-TRIPHENYL PHOSPHOROTHIOATE), 9, III

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.**· Seveso category E2** Hazardous to the Aquatic Environment**· Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**· REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· REGULATION (EU) 2019/1148**· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:**· Other regulations, limitations and prohibitive regulations****· Substances of very high concern (SVHC) according to REACH, Article 57**

597-82-0 | O,O,O-triphenyl phosphorothioate

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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 above information in this safety data sheet is based on our current knowledge and experience and describes the product with regard to safety requirements. The information is in no way to be regarded as a certificate of analysis or technical data sheet or as a description of the nature of the product (product specification). An agreed quality or the suitability of the product for a specific application cannot be derived from the identified uses stated in the safety data sheet. Any industrial property rights and existing (national and international) laws and regulations must be observed by the recipient of our product on his own responsibility.

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· Relevant phrases*H361f Suspected of damaging fertility.**H410 Very toxic to aquatic life with long lasting effects.**H413 May cause long lasting harmful effects to aquatic life.***· Department issuing SDS: see item 1****· Date of previous version: 10.03.2025****· Version number of previous version: 24****· Abbreviations and acronyms:***Repr. 2: Reproductive toxicity – Category 2**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4***· * Data compared to the previous version altered.**

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