

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 30.06.2016

Version number 8

Revision: 30.06.2016

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

- **1.1 Product identifier**
- **Trade name:** **FLUID-setral-SHT 100 HF/LB**
- **Article number:** 060658
- **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:**  
R&D  
Ms. KLING Rachel  
Tel. +33(0)388591154  
Tel. +33(0)388506841  
Mail: rachel.kling@setral.net
- **1.4 Emergency telephone number:**  
In case of emergency immediately call the poison control centre.  
+49 (0)228/19240 (Informationszentrale gegen Vergiftungen GIZ Bonn, 24-Std.- Notruf)

### 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 CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**  
EUH210 Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

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

· **Dangerous components:**

|                   |   |          |
|-------------------|---|----------|
| CAS: 35074-77-2   | Hexamethylene bis [3-(3,5-ditert-butyl-4-hydroxyphenyl) propionate] | 2,5-10%  |
| EINECS: 252-346-9 | Aquatic Chronic 4, H413   |          |
| CAS: 597-82-0     | Triphenyl phosphorothionate   | 0,5-2,5% |
| EINECS: 209-909-9 | Aquatic Chronic 4, H413   |          |

- **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.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **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.

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- **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.

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### 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**  
Particular danger of slipping on leaked/spilled product.
- **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).
- **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:** 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.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:**



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.

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- **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 protection:**



Safety glasses

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

- |                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Fluid           |
| · <b>Colour:</b>          | Whitish         |
| · <b>Odour:</b>           | Characteristic  |
| · <b>Odour threshold:</b> | Not determined. |

- |                    |                 |
|--------------------|-----------------|
| · <b>pH-value:</b> | Not determined. |
|--------------------|-----------------|

##### · Change in condition

- |                                       |               |
|---------------------------------------|---------------|
| · <b>Melting point/Melting range:</b> | Undetermined. |
| · <b>Boiling point/Boiling range:</b> | Undetermined. |

- |                       |        |
|-----------------------|--------|
| · <b>Flash point:</b> | 292 °C |
|-----------------------|--------|

- |   |                 |
|---|-----------------|
| · <b>Flammability (solid, gaseous):</b> | Not applicable. |
|---|-----------------|

- |                                     |                 |
|-------------------------------------|-----------------|
| · <b>Decomposition temperature:</b> | Not determined. |
|-------------------------------------|-----------------|

- |                         |                 |
|-------------------------|-----------------|
| · <b>Self-igniting:</b> | Not determined. |
|-------------------------|-----------------|

- |                               |   |
|-------------------------------|---|
| · <b>Danger of explosion:</b> | Product does not present an explosion hazard. |
|-------------------------------|---|

##### · Explosion limits:

- |                 |                 |
|-----------------|-----------------|
| · <b>Lower:</b> | Not determined. |
| · <b>Upper:</b> | Not determined. |

- |                           |                 |
|---------------------------|-----------------|
| · <b>Vapour pressure:</b> | Not determined. |
|---------------------------|-----------------|

- |                            |                          |
|----------------------------|--------------------------|
| · <b>Density at 20 °C:</b> | 0,9565 g/cm <sup>3</sup> |
| · <b>Relative density</b>  | Not determined.          |
| · <b>Vapour density</b>    | Not determined.          |
| · <b>Evaporation rate</b>  | Not determined.          |

- |  |  |
|--|--|
| · <b>Solubility in / Miscibility with water:</b> | Soluble in hydrocarbons.<br>Insoluble. |
|--|--|

- |   |                 |
|---|-----------------|
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined. |
|---|-----------------|

- |                     |                 |
|---------------------|-----------------|
| · <b>Viscosity:</b> |                 |
| · <b>Dynamic:</b>   | Not determined. |
| · <b>Kinematic:</b> | Not determined. |

- |                                |  |
|--------------------------------|--|
| · <b>9.2 Other information</b> | No further relevant information available. |
|--------------------------------|--|

### 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
- **10.6 Hazardous decomposition products:** Hydrocarbons, CO,CO<sub>2</sub>

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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#### · LD/LC50 values relevant for classification:

##### Ester

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | >2000 mg/kg (Rat) |
|------|------|-------------------|

|   |  |  |
|---|--|--|
| 35074-77-2 Hexamethylene bis [3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate] |  |  |
|---|--|--|

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | >2000 mg/kg (Rat) |
|------|------|-------------------|

|        |      |                      |
|--------|------|----------------------|
| Dermal | LD50 | >2000 mg/kg (Rabbit) |
|--------|------|----------------------|

|                                      |  |  |
|--------------------------------------|--|--|
| 597-82-0 Triphenyl phosphorothionate |  |  |
|--------------------------------------|--|--|

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | >2000 mg/kg (Rat) |
|------|------|-------------------|

|  |  |  |
|--|--|--|
| 41484-35-9 Thiodiethylene Bis (3-(3,5-di-tert-butyl hydroxyphenyl)propionate |  |  |
|--|--|--|

|      |      |                              |
|------|------|------------------------------|
| Oral | LD50 | >5000 mg/kg (Rat) (OCDE 401) |
|------|------|------------------------------|

|        |      |                      |
|--------|------|----------------------|
| Dermal | LD50 | >3000 mg/kg (Rabbit) |
|--------|------|----------------------|

|            |      |               |
|------------|------|---------------|
| Inhalative | CL50 | >5 mg/L (Rat) |
|------------|------|---------------|

##### · Primary irritant effect:

- **Skin corrosion/irritation** No irritant effects known

- **Serious eye damage/irritation** Weakly irritant

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **CMR effects (carcinogenity, mutagenicity and toxicity 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.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

|   |  |
|---|--|
| 35074-77-2 Hexamethylene bis [3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate] |  |
|---|--|

|          |                  |
|----------|------------------|
| CL50-96H | >100 mg/l (Fish) |
|----------|------------------|

|      |                   |
|------|-------------------|
| CE50 | >100 mg/l (Algae) |
|------|-------------------|

|  |                      |
|--|----------------------|
|  | >100 mg/l (Bacteria) |
|--|----------------------|

|                                      |  |
|--------------------------------------|--|
| 597-82-0 Triphenyl phosphorothionate |  |
|--------------------------------------|--|

|          |                             |
|----------|-----------------------------|
| CL50-96H | >100 mg/l (Fish) (OCDE 203) |
|----------|-----------------------------|

|      |                                 |
|------|---------------------------------|
| CE50 | >100 mg/l (Bacteria) (OCDE 209) |
|------|---------------------------------|

|  |  |
|--|--|
| 41484-35-9 Thiodiethylene Bis (3-(3,5-di-tert-butyl hydroxyphenyl)propionate |  |
|--|--|

|          |                            |
|----------|----------------------------|
| CL50-96H | >57 mg/l (Fish) (OCDE 203) |
|----------|----------------------------|

|      |                              |
|------|------------------------------|
| CE50 | >100 mg/l (Algae) (OCDE 201) |
|------|------------------------------|

|  |                                 |
|--|---------------------------------|
|  | >100 mg/l (Bacteria) (OCDE 209) |
|--|---------------------------------|

|                  |                                    |
|------------------|------------------------------------|
| Biodegradability | 7 % (Biodegradability) (OCDE 301B) |
|------------------|------------------------------------|

- **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.

##### · 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.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

### 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.

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· **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**· **ADR, ADN, IMDG, IATA** Void· **14.2 UN proper shipping name**· **ADR, ADN, IMDG, IATA** Void· **14.3 Transport hazard class(es)**· **ADR, ADN, IMDG, IATA**· **Class** Void· **14.4 Packing group**· **ADR, IMDG, IATA** Void· **14.5 Environmental hazards:**· **Marine pollutant:** No· **14.6 Special precautions for user** Not applicable.· **14.7 Transport in bulk according to Annex II of****Marpol and the IBC Code** 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.· **National regulations:**· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.· **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.

· **Relevant phrases**

H413 May cause long lasting harmful effects to aquatic life.

· **Department issuing SDS:** see item 1· **Abbreviations and acronyms:**

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

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