



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

1.1 Product identifier

SWAG 99 90 6161 hydraulic fluid
Article number: 99 90 6161

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

1.2.1 Relevant uses

Hydraulics oil

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company SWAG Autoteile GmbH
 Am Kiesberg 4-6
 42117 Wuppertal / GERMANY
 Phone +49 (0)202 26454-0
 Fax +49 (0)202 26454-5000
 Homepage www.swag.de
 E-mail info@swag.de

Address enquiries to

Technical information info@swag.de

Safety Data Sheet info@swag.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

Company +49 (0)202 26454-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute Tox. 4: H332 Harmful if inhaled.
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word DANGER

Contains: 1-Decene, Dimer, hydrogenated

Hazard statements H332 Harmful if inhaled.
 H304 May be fatal if swallowed and enters airways.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
 P312 Call a POISON CENTER / doctor if you feel unwell.
 P331 Do NOT induce vomiting.
 P405 Store locked up.
 P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.3 Other hazards

| | |
|---------------------------------|---|
| Physico-chemical hazards | No particular hazards known. |
| Human health dangers | Frequent persistent contact with the skin can cause skin irritation. If swallowed or in the event of vomiting, risk of product entering the lungs. |
| Environmental hazards | Does not contain any PBT or vPvB substances. |
| Other hazards | Further hazards were not determined with the current level of knowledge. |

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

| Range [%] | Substance |
|------------|---|
| 50 - < 99 | 1-Decene, Dimer, hydrogenated |
| | CAS: 68649-11-6, EINECS/ELINCS: 500-228-5, Reg-No.: 01-2119493069-28-XXXX |
| | GHS/CLP: Acute Tox. 4: H332 - Asp. Tox. 1: H304 |
| 10 - < 20 | Distillates (petroleum), hydrotreated light naphthenic |
| | CAS: 64742-53-6, EINECS/ELINCS: 265-156-6, EU-INDEX: 649-466-00-2, Reg-No.: 01-2119480375-34 |
| | GHS/CLP: Asp. Tox. 1: H304 |
| 2,4 - < 5 | Gas oils (petroleum), hydrodesulfurized |
| | CAS: 64742-79-6, EINECS/ELINCS: 265-182-8, EU-INDEX: 649-222-00-5 |
| | GHS/CLP: Acute Tox. 4: H332 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411 |
| 0,25 - < 1 | 2,6-di-tert-butyl-p-cresol |
| | CAS: 128-37-0, EINECS/ELINCS: 204-881-4, Reg-No.: 01-2119555270-46-XXXX |
| | GHS/CLP: Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M = 1 |

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|----------------------------|---|
| General information | Change soaked clothing. |
| Inhalation | Ensure supply of fresh air. In the event of symptoms seek medical treatment. |
| Skin contact | In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. |
| Eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion | Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Get medical advice. |

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in the event of vomiting, risk of product entering the lungs.
Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Not combusted hydrocarbons.
Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.
Forms slippery surfaces with water.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid formation of aerosols.
Use only in well-ventilated areas.
The product is combustible.
Do not eat, drink or smoke when using this product.
Use barrier skin cream.
Wash face and/or hands before break and end of work.
Cloths contaminated with product should not be kept in trouser pockets.
Contaminated work clothing should not be allowed out of the workplace.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with food and animal food/diet.
Do not store together with oxidizing agents.
Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

| |
|---|
| Substance |
| 2,6-di-tert-butyl-p-cresol |
| CAS: 128-37-0, EINECS/ELINCS: 204-881-4, Reg-No.: 01-2119555270-46-XXXX |
| Long-term exposure: 10 mg/m ³ |

DNEL

| |
|--|
| Substance |
| Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6 |
| Industrial, inhalative, Long-term - local effects: 5,4 mg/m ³ . |
| 1-Decene, Dimer, hydrogenated, CAS: 68649-11-6 |
| Industrial, inhalative, Acute - systemic effects: 60 mg/m ³ . |
| general population, inhalative, Acute - systemic effects: 50 mg/m ³ . |
| 2,6-di-tert-butyl-p-cresol, CAS: 128-37-0 |
| Industrial, dermal, Long-term - systemic effects: 8,3 mg/kg. |
| Industrial, inhalative, Long-term - systemic effects: 5,8 mg/m ³ . |
| general population, inhalative, Long-term - systemic effects: 1,74 mg/m ³ . |
| general population, dermal, Long-term - systemic effects: 5 mg/kg. |

PNEC

| |
|---|
| Substance |
| 2,6-di-tert-butyl-p-cresol, CAS: 128-37-0 |
| sewage treatment plants (STP), 100 mg/l. |
| seawater, 0,0004 mg/l. |
| freshwater, 0,004 mg/l. |
| oral (food), 16,7 mg/kg. |
| sediment (freshwater), 1,29 mg/kg. |
| soil, 1,04 mg/kg. |

8.2 Exposure controls

| | |
|--|--|
| Additional advice on system design | Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. |
| Eye protection | If there is a risk of splashing: Safety glasses. (EN 166:2001) |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0,4 mm; Neoprene, >480 min (EN 374-1/-2/-3). |
| Skin protection | light protective clothing |
| Other | Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin. |
| Respiratory protection | Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387) |
| Thermal hazards | none |
| Delimitation and monitoring of the environmental exposition | See SECTION 6+7. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---------------------------|
| Form | liquid |
| Color | green |
| Odor | characteristic |
| Odour threshold | not applicable |
| pH-value | not applicable |
| pH-value [1%] | not applicable |
| Boiling point [°C] | No information available. |
| Flash point [°C] | 160 |
| Flammability (solid, gas) [°C] | No information available. |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | No information available. |
| Density [g/ml] | 0,83 |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | immiscible |
| Partition coefficient [n-octanol/water] | No information available. |
| Viscosity | 18 mm²/s (40° C) |
| Relative vapour density determined in air | No information available. |
| Evaporation speed | No information available. |
| Melting point [°C] | No information available. |
| Autoignition temperature [°C] | No information available. |
| Decomposition temperature [°C] | No information available. |

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.
Reactions with strong acids and alkalies.

10.4 Conditions to avoid

See SECTION 7.2.
Strong heating.

10.5 Incompatible materials

Strong basic compounds
strong acids
Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| |
|---|
| Product |
| dermal, Based on the available information, the classification criteria are not fulfilled.: |
| oral, Based on the available information, the classification criteria are not fulfilled.: |
| ATE-mix, inhalativ (vapour), 241,23 mg/l/4h. |
| ATE-mix, inhalativ (mist), 3,07 mg/l/4h. |
| Substance |
| Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6 |
| LD50, dermal, Rabbit: > 2000 mg/kg bw. |
| LD50, oral, Rat: > 5000 mg/kg bw. |
| LC50, inhalative, Rat: > 5,53 mg/l/4h (dust/mist). |
| 1-Decene, Dimer, hydrogenated, CAS: 68649-11-6 |
| LD50, dermal, Rabbit: > 3000 mg/l. |
| LD50, oral, Rat: > 5000 mg/l. |
| LC50, inhalative, Rat: >1,81 mg/l 4h. |
| 2,6-di-tert-butyl-p-cresol, CAS: 128-37-0 |
| LD50, dermal, Rat: > 5000 mg/kg bw (OECD 402). |
| LD50, oral, Rat: > 5000 mg/kg bw (OECD 401). |
| NOEL, oral, Rat: 25 mg/kg/28d. |

| | |
|---|--|
| Serious eye damage/irritation | Based on the available information, the classification criteria are not fulfilled. |
| Skin corrosion/irritation | Based on the available information, the classification criteria are not fulfilled. |
| Respiratory or skin sensitisation | Based on the available information, the classification criteria are not fulfilled. |
| Specific target organ toxicity — single exposure | Based on the available information, the classification criteria are not fulfilled. |
| Specific target organ toxicity — repeated exposure | Based on the available information, the classification criteria are not fulfilled. |
| Mutagenicity | Based on the available information, the classification criteria are not fulfilled. |
| Reproduction toxicity | Based on the available information, the classification criteria are not fulfilled. |
| Carcinogenicity | Based on the available information, the classification criteria are not fulfilled. |
| Aspiration hazard | Based on the available information, the classification criteria are fulfilled. |
| General remarks | |

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

| |
|---|
| Substance |
| Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6 |
| LC50, (96h), fish: > 100 mg/l. |
| IC50, (48h), Algae: > 100 mg/l. |
| 1-Decene, Dimer, hydrogenated, CAS: 68649-11-6 |
| EC50, (48h), Daphnia magna: > 1000 mg/l. |
| EL50, (72h), Algae: >1000 mg/l. |
| NOELR, (21d), Daphnia magna: 125 mg/l. |
| LL50, (96h), Oncorhynchus mykiss: >1000 mg/l. |
| 2,6-di-tert-butyl-p-cresol, CAS: 128-37-0 |
| LC50, (96h), Danio rerio: > 0,57 mg/l. |
| EC50, (48h), Daphnia magna: > 0,17 mg/l. |
| IC50, (72h), Desmodesmus subspicatus: > 0,42 mg/l. |
| NOEC, (21d), Daphnia magna: > 0,39 mg/l. |

12.2 Persistence and degradability

| | |
|--|----------------|
| Behaviour in environment compartments | not determined |
| Behaviour in sewage plant | not determined |
| Biological degradability | not determined |

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

In according to RoHS!
Coordinate disposal with the disposal contractor/authorities if necessary.
Dispose of as hazardous waste.

Waste no. (recommended) 130111*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150102
150104
150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

not applicable

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- **Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- **VOC (2010/75/CE)** 0 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H315 Causes skin irritation.
 H304 May be fatal if swallowed and enters airways.
 H332 Harmful if inhaled.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Weight of evidence)
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 7 been added: Use only in well-ventilated areas.
 SECTION 10 been added: Oxidizing agent
 SECTION 10 been added: strong acids
 SECTION 13 been added: