

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

- **1.1 Product identifier**
- **Trade name:** GERMAN ADLER SYNT SAE 5W-50
- **Article number:** M101
- **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**  
Motor oil multigrade  
Viskositätsklasse: SAE 5W-50
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
GERMAN ADLER GmbH  
Kennedyallee 93  
D-60596 Frankfurt am Main  
Tel.: +49 69 697 692 10  
Fax: +49 69 697 692 15
- **Further information obtainable from:** [info@German-Adler.com](mailto:info@German-Adler.com)
- **1.4 Emergency telephone number:** Informationszentrale gegen Vergiftung Bonn, Tel.: +49 228 19240

## 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
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Preparation of base oils and additives.

- **Dangerous components:**

CAS: 64742-54-7 EINECS: 265-157-1 Index number: 649-467-00-8 Reg.nr.: 01-2119484627-25-0000	Distillates (petroleum), hydrotreated heavy paraffinic  Asp. Tox. 1, H304	50-100%
Reg.nr.: confidential	Calciumalkyl-Phenat-Sulfid, langkettig Aquatic Chronic 4, H413	≤2.5%

- **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 of danger area and lay down.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 2)

EU

**Trade name: GERMAN ADLER SYNT SAE 5W-50**

(Contd. of page 1)

- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbonmonoxide and Carbondioxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Keep people at a distance and stay on the windward side.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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** Avoid the formation of oil haze.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Note Regulation on facilities for the storage, filling and handling water-polluting substances. ..
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Storage in a collecting room is required.
- **7.3 Specific end use(s)** No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
Oilfog and Oilfumes                    TLV-8h-TWA                    5mg/m<sup>3</sup>  
    TLV-15min-STEL            10mg/m<sup>3</sup>

(Contd. on page 3)

EU

**Trade name: GERMAN ADLER SYNT SAE 5W-50**

(Contd. of page 2)

**· Additional information:**

*The lists valid during the making were used as basis.*

*Used engine oil may contain considered dangerous combustion products which can cause skin cancer. Any skin contact should be avoided by applying personal hygiene measures. (See Chapter 8)*

**· 8.2 Exposure controls**

**· Appropriate engineering controls** No further data; see item 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**

*Preventive skin protection by use of skin-protecting agents is recommended.*

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

**· Material of gloves**

*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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*

**· Not suitable are gloves made of the following materials:** Leather gloves

**· Eye/face protection** Goggles recommended during refilling

**SECTION 9: Physical and chemical properties**

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

**· General Information**

Fluid

<b>· Physical state</b>	Fluid
<b>· Colour:</b>	Light brown
<b>· Odour:</b>	Characteristic
<b>· Odour threshold:</b>	Not determined.
<b>· Melting point/freezing point:</b>	Undetermined.
<b>· Boiling point or initial boiling point and boiling range</b>	Undetermined.
<b>· Flammability</b>	Not applicable.
<b>· Lower and upper explosion limit</b>	
<b>· Lower:</b>	0.6 Vol % (DIN EN 1839)
<b>· Upper:</b>	6.5 Vol % (DIN EN 1839)
<b>· Flash point:</b>	224 °C (DIN ISO 2592)
<b>· Decomposition temperature:</b>	Not determined.
<b>· pH</b>	Not determined.
<b>· Viscosity:</b>	
<b>· Kinematic viscosity at 40 °C</b>	100 mm <sup>2</sup> /s
<b>· Dynamic:</b>	Not determined.
<b>· Solubility</b>	
<b>· water:</b>	Not miscible or difficult to mix.
<b>· Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>· Vapour pressure:</b>	Not determined.
<b>· Density and/or relative density</b>	
<b>· Density at 20 °C:</b>	0.851 g/cm <sup>3</sup> (DIN 51757)
<b>· Relative density</b>	Not determined.
<b>· Vapour density</b>	Not determined.

(Contd. on page 4)

EU

**Trade name: GERMAN ADLER SYNT SAE 5W-50**

(Contd. of page 3)

<b>· 9.2 Other information</b>	
<b>· Appearance:</b>	
<b>· Form:</b>	Fluid
<b>· Important information on protection of health and environment, and on safety.</b>	
<b>· Auto-ignition temperature:</b>	Not determined.
<b>· Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>· Change in condition</b>	
<b>· Softening point/range</b>	
<b>· Pour point</b>	-42 °C (DIN ISO 3016)
<b>· Evaporation rate</b>	Not determined.
<b>· Information with regard to physical hazard classes</b>	
<b>· Explosives</b>	Void
<b>· Flammable gases</b>	Void
<b>· Aerosols</b>	Void
<b>· Oxidising gases</b>	Void
<b>· Gases under pressure</b>	Void
<b>· Flammable liquids</b>	Void
<b>· Flammable solids</b>	Void
<b>· Self-reactive substances and mixtures</b>	Void
<b>· Pyrophoric liquids</b>	Void
<b>· Pyrophoric solids</b>	Void
<b>· Self-heating substances and mixtures</b>	Void
<b>· Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>· Oxidising liquids</b>	Void
<b>· Oxidising solids</b>	Void
<b>· Organic peroxides</b>	Void
<b>· Corrosive to metals</b>	Void
<b>· Desensitised explosives</b>	Void

## **SECTION 10: Stability and reactivity**

- 10.1 Reactivity** No further relevant information available.
- 10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
- 10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## **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:**

Rat oral : > 2000 mg/kg (Concawe Product dossier 01/54)

**CAS: 68649-42-3 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts**

Oral	LD50	>2,000 mg/kg (rat)
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- Skin corrosion/irritation**

Prolonged skin contact it may cause irritations

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

(Contd. on page 5)

EU

**Trade name: GERMAN ADLER SYNT SAE 5W-50**

(Contd. of page 4)

- **Serious eye damage/irritation** 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.
- **Additional toxicological information:**  
Used engine oil may contain considered dangerous combustion products which can cause skin cancer. Any skin contact should be avoided by applying personal hygiene measures. (See Chapter 8)
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)
- **11.2 Information on other hazards**
  - **Endocrine disrupting properties**  
None of the ingredients is listed.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**  
The product spreads out on the surface of the water. A small fraction of the constituents will be dissolved. It prevents the solution of oxygen and can cause the death of water organism.
- **12.2 Persistence and degradability** Not easily biodegradable
- **Degree of elimination:**

CAS: 68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
EC50	1-1.5 mg/kg (daphnia) (OECD Guide-line 202 part1, Daphnia A.I.T.)
- **12.3 Bioaccumulative potential**  
Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** The product can easily be separated by an oil separator (skimmer) of the water surface.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Delivery of waste oil to officially authorised collectors only.
- **European waste catalogue**

13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils
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(Contd. on page 6)

EU

**Trade name: GERMAN ADLER SYNT SAE 5W-50**

(Contd. of page 5)

- Uncleaned packaging:**
- Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

<b>14.1 UN number or ID number</b>	
<b>ADR, ADN, IMDG, IATA</b>	<i>Void</i>
<b>14.2 UN proper shipping name</b>	
<b>ADR, ADN, IMDG, IATA</b>	<i>Void</i>
<b>14.3 Transport hazard class(es)</b>	
<b>ADR, ADN, IMDG, IATA</b>	
<b>Class</b>	<i>Void</i>
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	<i>Void</i>
<b>14.5 Environmental hazards:</b>	
<b>Marine pollutant:</b>	<i>No</i>
<b>14.6 Special precautions for user</b>	<i>Not applicable.</i>
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	<i>Not applicable.</i>
<b>UN "Model Regulation":</b>	<i>Void</i>

**SECTION 15: Regulatory information**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
<b>Labelling according to Regulation (EC) No 1272/2008</b> <i>Void</i>
<b>Hazard pictograms</b> <i>Void</i>
<b>Signal word</b> <i>Void</i>
<b>Hazard statements</b> <i>Void</i>
<b>Directive 2012/18/EU</b>
<b>Named dangerous substances - ANNEX I</b> <i>None of the ingredients is listed.</i>
<b>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b>
<i>None of the ingredients is listed.</i>
<b>REGULATION (EU) 2019/1148</b>
<b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b>
<i>None of the ingredients is listed.</i>
<b>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b>
<i>None of the ingredients is listed.</i>
<b>National regulations:</b>
<b>Additional classification according to Decree on Hazardous Materials, Annex II:</b> <i>The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.</i>
<b>Information about limitation of use:</b> <i>none</i>

(Contd. on page 7)

EU

**Trade name: GERMAN ADLER SYNT SAE 5W-50**

(Contd. of page 6)

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**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**

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

- **Department issuing SDS: Product safety**

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Asp. Tox. 1: Aspiration hazard – Category 1

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

- **Sources** Concawe Product Dossier No.97/108. Concawe Product Dossier Nn. 01/54.

- **\* Data compared to the previous version altered.**

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