

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

- **1.1 Product identifier**
- **Trade name:** GERMAN ADLER SAE 40 CI-4
- **Article number:** M110
- **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 monograde  
SAE 40
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
GERMAN ADLER GmbH  
Kennedyallee 93  
D-60596 Frankfurt am Main  
Germany  
Phone: +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 Chemical characterisation: Mixtures**
- **Description:** Preparation of base oils and additives.
- **Dangerous components:** Void
- **SVHC** None
- **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.
- **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.  
(Contd. on page 2)

**Trade name: GERMAN ADLER SAE 40 CI-4**

(Contd. of page 1)

- **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**

- **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:**  
Oilfog and Oilfumes                    TLV-8h-TWA                    5mg/m<sup>3</sup>  
    TLV-15min-STEL            10mg/m<sup>3</sup>
- **Additional information:**  
The lists valid during the making were used as basis.

(Contd. on page 3)

EU

**Trade name: GERMAN ADLER SAE 40 CI-4**

(Contd. of page 2)

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****• 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:**

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 through 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 protection:** Goggles recommended during refilling**SECTION 9: Physical and chemical properties****• 9.1 Information on basic physical and chemical properties****• General Information**

**Appearance:** clear

**Form:** Fluid

**Colour:** Brown

**Odour:** Mineral-oil-like

**Odour threshold:** Not determined.

**pH-value:** Not determined.

**• Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** Undetermined.

**Pour point** - 39 °C (DIN ISO 3016)

**Flash point:** 222 °C (DIN ISO 2592)

**Flammability (solid, gas):** Not applicable.

**• Ignition temperature:**

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Not determined.

**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**• Explosion limits:**

**Lower:** 0,6 Vol % (DIN EN 1839)

**Upper:** 6,5 Vol % (DIN EN 1839)

**Vapour pressure:** Not determined.

**Density at 20 °C:** 0,862 g/cm³ (DIN 51757)

(Contd. on page 4)

EU

**Trade name: GERMAN ADLER SAE 40 CI-4**

(Contd. of page 3)

<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>	Not miscible or difficult to mix.
<b>• Partition coefficient: n-octanol/water:</b>	Not determined.
<b>• Viscosity:</b> <b>Dynamic:</b>	Not determined.
<b>Kinematic at 40 °C:</b>	99 mm <sup>2</sup> /s (DIN 51562)
	Not determined.
<b>• Solvent content:</b> <b>Organic solvents:</b>	0,0 %
<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:** 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 toxicological effects**
- 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)
- 68649-42-3 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts**
- Oral LD50** > 2000 mg/kg (rat)
- Primary irritant effect:**
- Skin corrosion/irritation** Prolonged skin contact it may cause irritations
- 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.
- 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)
- 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.

EU

(Contd. on page 5)

**Trade name: GERMAN ADLER SAE 40 CI-4**

(Contd. of page 4)

**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 organismn.

**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.)**· 12.2 Persistence and degradability** Not easily biodegradable**· 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.**· Ecotoxicological 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 2 (German Regulation) (Self-assessment): 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:**

When storing used mineral oil products, ensure that the categories for waste oil and mixing instructions are observed.

Delivery of waste oil to officially authorised collectors only.

**· European waste catalogue****13 02 05\*** mineral-based non-chlorinated engine, gear and lubricating oils**· Uncleaned packaging:****· Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

**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

(Contd. on page 6)

EU

**Trade name: GERMAN ADLER SAE 40 CI-4**

(Contd. of page 5)

<b>· 14.5 Environmental hazards:</b>	
<b>· Marine pollutant:</b>	No
<b>· 14.6 Special precautions for user</b>	<i>Not applicable.</i>
<b>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	<i>Not applicable.</i>
<b>· UN "Model Regulation":</b>	<i>Void</i>

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Labelling according to Regulation (EC) No 1272/2008** *Void*
- Hazard pictograms** *Void*
- Signal word** *Void*
- Hazard statements** *Void*
- Directive 2012/18/EU**
- Named dangerous substances - ANNEX I** *None of the ingredients is listed.*
- National regulations:**
- Additional classification according to Decree on Hazardous Materials, Annex II:**  
*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.*
- Information about limitation of use:** *none*
- 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.*

- Department issuing SDS: Product safety**
- Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport 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
  - SVHC: Substances of Very High Concern
  - vPvB: very Persistent and very Bioaccumulative
- Sources** Concawe Product Dossier N°.97/108. Concawe Product Dossier N°. 01/54.
- \* Data compared to the previous version altered.**

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