

MATERIAL SAFETY DATA SHEET

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according to 1907/2006/EC, Article 31

Printing date 18.02.2008

Revision: 18.02.2008

1 Identification of substance

- **Product details**
- **Trade name** ***PENTOSYNTH TS 5W-40***
- **Article number:** 1090107
- **Application of the substance / the preparation** *Automotive Motor Oil*
- **Manufacturer/Supplier:**
*Deutsche Pentosin-Werke GmbH
Industriestraße 39-43
D-22880 Wedel
Germany
Phone ++49 4103 9134-0
Fax ++49 4103 9134-71*
- **Informing department:**
*Safety / Health / Environment
g.lukaschek@pentosin.com*
- **Emergency information:** +49 / (0) 4103 / 91 34-0

2 Hazards identification

- **Hazard designation:** *void*
- **Information pertaining to particular dangers for man and environment**
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.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- **GHS label elements**

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** *Mixture consisting of the following components.*
- **Dangerous components:** *Void*
- **Additional information** *For the wording of the listed risk phrases refer to section 16.*

4 First aid measures

- **General information** *No special measures required.*
- **After inhaling** *Supply fresh air; consult doctor in case of symptoms.*
- **After skin contact** *The product is generally no skin irritant.*
- **After eye contact** *Rinse opened eye for several minutes under running water.*
- **After swallowing** *Do not initiate vomiting; instantly call for medical help.*

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Protective equipment:** Wear self-contained breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:** Particular danger of slipping on leaked/spilled product.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous materials are released.

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class 10** (VCI Germany)

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical 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.
- **Personal protective equipment**
- **General protective and hygienic measures** Use skin protection cream for preventive skin protection.
- **Breathing equipment:** Not required.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
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.
- **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.

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· **Eye protection:** Protective goggles recommended during refilling.

9 Physical and chemical properties:

· General Information

Form: Fluid
Colour: Brown
Smell: Mineral-oil-like

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: >250°C

· **Flash point:** >220°C (DIN ISO 2592)

· **Self-inflammability:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive.

· **Steam pressure at 20°C:** <0.1 mbar

· **Density at 20°C** 0.854 g/cm³ (ISO 12185)

· **Solubility in / Miscibility with Water:** Insoluble

· **pH-value:** Not applicable

· **Viscosity:**
kinematic at 40°C: 90 mm²/s (DIN EN ISO 3104)

10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with oxidizing agents
- **Dangerous products of composition:** None

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the eye:** No irritant effect.
- **Sensitization:** Not determined
- **Additional toxicological information:**
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is biodegradable.
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**
 - **European waste catalogue**
- | | |
|----------|---|
| 13 00 00 | OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19) |
| 13 02 00 | waste engine, gear and lubricating oils |
| 13 02 06 | synthetic engine, gear and lubricating oils |
- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Transport/Additional information:** No dangerous goods in accordance with the above orders

15 Regulatory information

- **Designation according to EC guidelines:**
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
- **National regulations:** All components are listed in EC-Inventory EINECS / ELINCS
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** Safety / Health / Environment
- **Contact:** Dr.G.Lukaschek
- **Abbreviations and acronyms:**
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
- *** Data compared to the previous version altered.**