

# MATERIAL SAFETY DATA SHEET

according to 91/155 EEC

Printing date 26.01.2007

Reviewed on 26.01.2007

## 1 Identification of substance

- **Product details**
- **Trade name** PENTOSIN CHF 202
- **Article number:** 1403900
- **Application of the substance / the preparation** Central Hydraulic Fluid
- **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:** Department QM-UM-Safety
- **Emergency information:** +49 / (0)4103 / 91 34-0

## 2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture consisting of the following components with harmless additives.

### · Dangerous components:

CAS: 68649-11-6 NLP: 500-228-5	1-Decene, dimer, hydrogenated	☒ Xn; R 65	< 20%
CAS: 64742-46-7 EINECS: 265-148-2	Distillates (petroleum), hydrotreated middle	☒ Xn; R 65	< 20%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

## 3 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.

## 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** Call a doctor immediately.

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## 5 Fire fighting measures

- **Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet.
- **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:** Not required.
- **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:**  
Oil-resistant gloves  
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.
- **Eye protection:** Protective goggles recommended during refilling.

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## 9 Physical and chemical properties:

### · General Information

**Form:** Fluid  
**Colour:** Dark green  
**Smell:** Characteristic

### · Change in condition

**Melting point/Melting range:** >-50°C (ISO 3016)  
**Boiling point/Boiling range:** >200°C (GC)

· **Flash point:** >150°C (ISO 2592)

· **Ignition temperature:** 245°C (DIN 51794)

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

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

### · Critical values for explosion:

**Lower:** 0.6 Vol %  
**Upper:** 6.5 Vol %

· **Steam pressure at 20°C:** 0.001 hPa

· **Density at 20°C** 0.84 g/cm<sup>3</sup> (ISO 12185)

### · Solubility in / Miscibility with

**Water:** Insoluble

· **pH-value:** Not applicable

### · Viscosity:

**kinematic at 40°C:** 19 mm<sup>2</sup>/s (ISO 3104)

## 10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No 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:

**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 01 00	waste hydraulic oils
13 01 10	mineral based non-chlorinated hydraulic oils

**Uncleaned packagings:**

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

## 14 Transport information

**Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

**ADR/RID-GGVS/E Class:** -

**Maritime transport IMDG/GGVSea:**

**Marine pollutant:** No

**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).

**Special designation of certain preparations:**

Safety data sheet available for professional user on request.

**National regulations:**

**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.

**Relevant R-phrases**

65 Harmful: may cause lung damage if swallowed.

**Department issuing data specification sheet:** QM-UM-Safety

**Contact:** Dr.G.Lukaschek

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