

MATERIAL SAFETY DATA SHEET

Page 1/5

according to 1907/2006/EC, Article 31

Printing date 19.02.2010

Revision: 19.02.2010

1 Identification of substance

· **Product details**

· **Trade name** PENTOSIN CHF 11S

· **Article number:** 1416900

· **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

US Distributor

JCB Inc.
2000 Bamford Blvd.
Pooler, GA 31322
(912) 447-2000
(800) 255-3924 24 hr Emergency

· **Informing department:**

Safety / Health / Environment
msds-info@pentosin.com

· **Emergency information:** +49 4103 9134-0

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**



Danger

H304 - May be fatal if swallowed and enters airways.

Contains Alkylated long-chain alkyl amine. May produce an allergic reaction.

Safety data sheet available on request.

· **Response:**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

· **Storage:**

P405 Store locked up.

· **Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Blend of synthetic hydrocarbons, additives and dye

(Contd. on page 2)

MATERIAL SAFETY DATA SHEET

Page 2/5

according to 1907/2006/EC, Article 31




Printing date 19.02.2010

Revision: 19.02.2010

Trade name *PENTOSIN CHF 11S*

(Contd. of page 1)

· **Dangerous components:**

CAS: 68649-11-6 NLP: 500-228-5	1-Decene, dimer, hydrogenated	 Xn; R 65 Danger:  3.10/I	< 75%
CAS: 64742-46-7 EINECS: 265-148-2	Distillates (petroleum), hydrotreated middle	 Xn; R 65	<10%

· **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** Call a doctor immediately.

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, 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.

(Contd. on page 3)

GB

MATERIAL SAFETY DATA SHEET

Page 3/5

according to 1907/2006/EC, Article 31

Printing date 19.02.2010

Revision: 19.02.2010

Trade name *PENTOSIN CHF 11S*

(Contd. of page 2)

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

9 Physical and chemical properties:

· General Information

Form: Fluid
Colour: Dark green
Smell: Characteristic

· Change in condition

Melting point/Melting range: -60°C (ISO 3016)
Boiling point/Boiling range: > 300°C ((GC))

· **Flash point:** 160°C (DIN EN ISO 2592)

· **Ignition temperature:** 235°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** 0.825 g/cm³ (DIN EN ISO 12185)

· Solubility in / Miscibility with

Water: Insoluble

· **pH-value:** Not applicable

(Contd. on page 4)

MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Page 4/5

Printing date 19.02.2010

Revision: 19.02.2010

Trade name *PENTOSIN CHF 11S*

(Contd. of page 3)

- **Viscosity:**
kinematic at 40°C: 19 mm²/s (DIN EN ISO 3104)

10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Strong oxydising substances
- **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:** No sensitizing effect known.
- **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.

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 01 00	waste hydraulic oils
13 01 11	synthetic hydraulic oils

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

(Contd. on page 5)

MATERIAL SAFETY DATA SHEET

Page 5/5

according to 1907/2006/EC, Article 31

Printing date 19.02.2010

Revision: 19.02.2010

Trade name *PENTOSIN CHF 11S*

(Contd. of page 4)

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

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **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:**

Contains Alkylated long-chain alkyl amine. May produce an allergic reaction.

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:** Safety / Health / Environment

· **Contact:** Dr.G.Lukaschek

· **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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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