

# Safety Data Sheet

acc. to OSHA HCS

Page 1/7

Printing date 08/27/2013

Reviewed on 04/12/2013

## 1 Identification

- **Product identifier**
- **Trade name:** Pentosin MTF 2 75W-80
- **Article number:** 8056107
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation** Transmission Oil
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Deutsche Pentosin-Werke GmbH  
Industriestraße 35-53  
D-22880 Wedel  
Germany  
Phone ++49 4103 9134-0  
Fax ++49 4103 9134-71
- **Information department:**  
Safety / Health / Environment  
msds-info@pentosin.com
- **Emergency telephone number:** +49 4103 9134-0

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

H317 May cause an allergic skin reaction.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of international guidelines.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms** GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**

1-(tert-Dodecylthio)propan-2-ol (EG-No: 266-582-5)

triphenyl phosphite

- **Hazard statements**

May cause an allergic skin reaction.

- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/27/2013

Reviewed on 04/12/2013

**Trade name: Pentosin MTF 2 75W-80**

(Contd. of page 1)

Specific treatment (see on this label).  
 Wash contaminated clothing before reuse.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

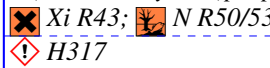
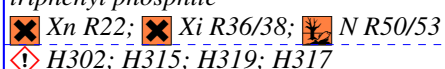
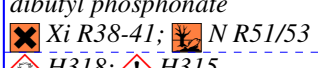
· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of synthetic hydrocarbons, synthetic esters and additives.

· **Dangerous components:**

|           |   |        |
|-----------|---|--------|
|           | 1-(tert-Dodecylthio)propan-2-ol (EG-No: 266-582-5)<br> | < 0.5% |
| 101-02-0  | triphenyl phosphite<br>                                | < 0.5% |
| 1809-19-4 | dibutyl phosphonate<br>                                | < 0.5% |

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

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Seek immediate medical advice.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Page 3/7

Printing date 08/27/2013

Reviewed on 04/12/2013

**Trade name: Pentosin MTF 2 75W-80**

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** 10 (VCI Germany)
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit 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.
- **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/27/2013

Reviewed on 04/12/2013

**Trade name: Pentosin MTF 2 75W-80**

(Contd. of page 3)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Use skin protection cream for 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.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
Under normal working conditions: Butyl rubber, NBR or PVC, regularly change!  
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.
- **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|                         |                                    |
|-------------------------|------------------------------------|
| <b>Form:</b>            | Fluid                              |
| <b>Color:</b>           | According to product specification |
| <b>Odor:</b>            | Characteristic                     |
| <b>Odour threshold:</b> | Not determined.                    |
- **pH-value:** Not applicable
- **Change in condition**

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Melting point/Melting range:</b> | <-60 °C (ISO 3016) |
| <b>Boiling point/Boiling range:</b> | > 200 °C           |
- **Flash point:** 228 °C (ISO 2592)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 330 °C
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**

|               |           |
|---------------|-----------|
| <b>Lower:</b> | 1.8 Vol % |
| <b>Upper:</b> | 2.4 Vol % |
- **Vapor pressure at 20 °C:** 0.1 hPa
- **Density at 20 °C:** 0.85 g/cm<sup>3</sup> (ISO 12185)

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/27/2013

Reviewed on 04/12/2013

**Trade name: Pentosin MTF 2 75W-80**

(Contd. of page 4)

|   |   |
|---|---|
| · <b>Relative density</b>                         | <i>Not determined.</i>                            |
| · <b>Vapour density</b>                           | <i>Not determined.</i>                            |
| · <b>Evaporation rate</b>                         | <i>Not determined.</i>                            |
| · <b>Solubility in / Miscibility with Water:</b>  | <i>not soluble</i>                                |
| · <b>Partition coefficient (n-octanol/water):</b> | <i>Not determined.</i>                            |
| · <b>Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | <i>Not determined.</i>                            |
| <b>Kinematic at 20 °C:</b>                        | <i>88 mm<sup>2</sup>/s (ISO 3104)</i>             |
| · <b>Solvent content:</b>                         |   |
| <b>Organic solvents:</b>                          | <i>0.0 %</i>                                      |
| · <b>Other information</b>                        | <i>No further relevant information available.</i> |

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known.*

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** *No irritant effect.*
- **on the eye:** *No irritating effect.*
- **Sensitization:** *No sensitizing effects known.*
- **Additional toxicological information:**
- **Carcinogenic categories**

### · IARC (International Agency for Research on Cancer)

*None of the ingredients is listed.*

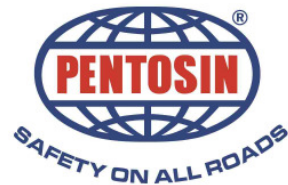
### · NTP (National Toxicology Program)

*None of the ingredients is listed.*

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Other information:** *The product is biodegradable.*

(Contd. on page 6)



# Safety Data Sheet

acc. to OSHA HCS

Page 6/7

Printing date 08/27/2013

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**Trade name: Pentosin MTF 2 75W-80**

(Contd. of page 5)

- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 2 (Self-assessment): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Waste disposal key:** EC waste list: 13 02 06 Synthetic engine, gear and machine oil
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |  |  |
|--|--|
| · <b>UN-Number</b>   | Void   |
| · <b>TDG, IMDG, IATA</b>   | Void   |
| · <b>UN proper shipping name</b>   | Void   |
| · <b>TDG, IMDG, IATA</b>   | Void   |
| · <b>Transport hazard class(es)</b>  | Void   |
| · <b>TDG, IMDG, IATA</b>   | Void   |
| · <b>Class</b>   | Void   |
| · <b>Packing group</b>   | Void   |
| · <b>TDG, IMDG, IATA</b>   | Void   |
| · <b>Environmental hazards:</b>  |  |
| · <b>Marine pollutant:</b>   | No   |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Page 7/7

Printing date 08/27/2013

Reviewed on 04/12/2013

**Trade name: Pentosin MTF 2 75W-80**

(Contd. of page 6)

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **GHS label elements**  
*The product is classified and labeled according to the Globally Harmonized System (GHS).*
- **Hazard pictograms** GHS07
- **Signal word** Warning
- **Hazard-determining components of labeling:**  
*1-(tert-Dodecylthio)propan-2-ol (EG-No: 266-582-5)  
triphenyl phosphite*
- **Hazard statements**  
*May cause an allergic skin reaction.*
- **Precautionary statements**  
*Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Specific treatment (see on this label).  
Wash contaminated clothing before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **National regulations:** *Water hazard class 2 (); hazardous for water*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## 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 MSDS:** *Safety / Health / Environment*
- **Contact:** *Dr.G.Lukaschek*
- **Abbreviations and acronyms:**  
*ICAO: International Civil Aviation Organization  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
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)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)*
- **\* Data compared to the previous version altered.**