SAFETY DATA SHEET INFORMATION

RIDGID Product Name: RIDGID Press Tools Hydraulic Oil
RIDGID Product Catalog No.: N/A

Vendor Name: PANOLIN
Vendor Product Name: PANOLIN P 9632/1

Use in RIDGID Products: Press Tools
                        Electrical Tools
                        Manual Hydraulic Crimp Tools
                        Knockout Punch Head

Restrictions on Use: NA

SDS Information – See following sheets for manufacturer SDS

Ridge Tool Contact Information:

<table>
<thead>
<tr>
<th>North America</th>
<th>Australia</th>
<th>Europe</th>
</tr>
</thead>
<tbody>
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<td>Ridge Tool Company</td>
<td>Ridge Tool Australia</td>
<td>Ridge Tool Europe NV (RIDGID)</td>
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Operating Standard: 6-204
Issue Date: May 18, 2018
Revision: G

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

PANOLIN P 9632/1 (P 9632/1)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance / preparation: Hydraulic oil

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Panolin AG
Street/P.O.Box: Bläsimühle
Country code/Postal code/Town/City: 8322 Madetswil
Country: Switzerland
Telephone: +41(0)44 956 65 65
Contact: info@panolin.com

1.4 Emergency telephone number

Swiss toxicological information center (24h)
Phone: +41 44 251 51 51

2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008 (GHS) -

2.2 Label elements

Directive 67/548/EEC or 1999/45/EC
Regulatory information
Special designation for certain preparations 101 Safety data sheet available for professional user on request.
Regulation (EC) No 1272/2008 (GHS)
Special rules for supplemental label elements for certain mixtures EUH210 Safety data sheet available on request.

2.3 Other hazards

The product is not classified according to the calculation method of the General Classification guideline for preparations of the EU in the latest version.

2.4 Additional information

None.

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components
1-decene-homopolymer, hydrogenated ; EC-No.: 500-183-1; CAS-No.: 68037-01-4
Percentage: 60 - 65 %
4. First aid measures

4.1 Description of first aid measures

General
Immediately remove person concerned out of danger area. Contaminated, soaked clothing and shoes change and clean.

After inhalation
Call a doctor, should the air passages be affected.

After skin contact
In general, the product is not irritating to skin. Wash away with soap and water and rinse. If skin irritation persists, consult a physician.

After eye contact
Flush with plenty of water (10 - 15 min.). Consult persistent redness or other symptoms, a doctor.

After ingestion
If symptoms occur consult a doctor

4.2 Most important symptoms and effects, both acute and delayed
None known.

4.3 Indication of any immediate medical attention and special treatment needed
None.

5. Firefighting measures

Suitable extinguishing media Foam, CO2, powder extinguisher, water haze, water spray jet.

5.1 Extinguishing media

Unsuitable extinguishing media
Waterjet.

5.2 Special hazards arising from the substance or mixture
In case of fire toxic gases may be formed.

5.3 Advice for firefighters
In case of fire do not breathe fumes When extinguishing fires, use breathing apparatus with an independent source of air.

5.4 Additional information
Cool endangered containers with water in case of fire. Under extreme heating in closed containers polymerisation, decomposition Pressure formation and bursting of containers possible. Do not allow the quenching water into the sewage system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Particular danger of slipping on leaked/spilled product. Take the precautions customary when handling chemicals.

6.2 **Environmental precautions**
Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not empty into drains.

6.3 **Methods and material for containment and cleaning up**
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 **Reference to other sections**
None.

7. **Handling and storage**

7.1 **Precautions for safe handling**
**Information for safe handling**
Prevent formation of oil mist.

**Information about protection against explosions and fires**
No particular measures required.

7.2 **Conditions for safe storage, including any incompatibilities**

**Requirements to be met by storerooms and containers**
No specific requirement.

**Information about separation of incompatible products**
Not required.

**Further information about storage conditions**
Do not store outside. Avoid heating over 40°C.

**Storage class:** 10

7.3 **Specific end use(s)**
None.

8. **Exposure controls/personal protection**

8.1 **Control parameters**
None.

8.2 **Exposure controls**

**Personal protective equipment**

**General protective and hygiene measures**
The usual precautionary measures for the handling of chemicals have to be observed. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuff.

**Respiratory protection**
None, but avoid breathing vapours if possible.

**Hand protection**
Oil resistant, tested, protective gloves (e.g. nitrile rubber) must be worn.

**Eye protection**
Use tightly fitting safety glasses.

**Body protection**
No particular measures required. In case of splattering, wear oil-resistant protective clothing.

**Additional information about engineering measures**
No further details, see Section 7.
9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Image
Form: Liquid.
Colour: Light yellowish.
Odour: Characteristic.

Relevant safety data
Boiling temperature / boiling range: (1013 hPa) No data available
Flash point: > 180 °C
Vapour pressure: (50 °C) No data available
Density: (15 °C) 0.876 g/cm³
Water solubility: (20 °C) insoluble
Viscosity: (40 °C) 27.5 mm²/s

9.2 Other information
None.

10. Stability and reactivity

10.1 Reactivity
There are no data available on the product itself.

10.2 Chemical stability
There are no data available on the product itself.

10.3 Possibility of hazardous reactions
There are no data available on the product itself.

10.4 Conditions to avoid
None, if handled according to order.

10.5 Incompatible materials
Reactions with strong oxidizing agents possible. Reactions with strong acids or alkalines possible.

10.6 Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

11.1 Information on toxicological effects
There are no data available on the product itself.

11.2 Experience on practice
This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

11.3 Additional toxicological information
The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

12. Ecological information
Material Safety Data Sheet
according to Regulation (EC) 1907/2006

Product name : PANOLIN P 9632/1
Revision : 24.11.2011
Print date : 02.11.2012
Version (Revision) : 2.0.0 (1.0.0)

12.1 Toxicity
There are no data available on the product itself.

12.2 Persistence and degradability
Possibility to eliminate the product out of sewage : Oil and fat separators.
Biological degradation / elimination
The product is difficult to biologically degrade.

12.3 Bioaccumulative potential
There are no data available on the product itself.

12.4 Mobility in soil
There are no data available on the product itself.

12.5 Results of PBT and vPvB assessment
There are no data available on the product itself.

12.6 Other adverse effects
There are no data available on the product itself.

12.7 Additional information
Do not empty into waters or drains.

13. Disposal considerations

13.1 Waste treatment methods
Recommendation
In accordance with local official regulations.

Waste key
Waste code (91/689/EEC) : 13 01 11*

Contaminated packaging
Empty containers should be scrapped or reconditioned. Containers, which have not been emptied properly must be treated as special waste.
Recommendation
Disposal, in accordance with local official regulation.
Recommended detergent
Water, possibly with the addition of detergent.

14. Transport information

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

14.1 UN number
The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

14.2 UN proper shipping name
The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

14.3 Transport hazard class(es)
The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

14.4 Packing group
The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

14.5 Environmental hazards
The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

14.6 Special precautions for user
15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information
Water pollution classification
Class: 2 Classification according to VwVwS

15.2 Chemical safety assessment
There are no data available on the product itself.

16. Other information

The details in this material safety data sheet satisfy national and EC legislation.

Further information

Relevant changes
02.2 GHS - Precautionary statements · 02.2 GHS - Supplemental hazard information · 03. Hazardous components

R-Phrases of components
R-Phrases of components
65 Harmful: may cause lung damage if swallowed.

GHS Hazard statements of components
H304 May be fatal if swallowed and enters airways.

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.