SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
PANOLIN ATLANTIS 22 (36062)

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Hydraulic oil, Lubricant

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 Centre
Phone: +41 (0)44/ 251 51 51

SECTION 2: Hazards identification

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]
None

2.2 Label elements
None

2.3 Other hazards
None

SECTION 3: Composition / information on ingredients

3.2 Mixtures
Mixture of synthetic esters and additives.
Hazardous ingredients
None

SECTION 4: First aid measures

4.1 Description of first aid measures
General information
Remove affected person from the danger area and lay down. Contaminated, soaked clothing and shoes change and clean. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation
Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician. If
unconscious place in recovery position and seek medical advice.

In case of skin contact
Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After eye contact
Remove contact lenses, keep eyelids open. Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion
If symptoms occur consult a doctor Do NOT induce vomiting. Let water be drunken in little sips (dilution effect).

4.2 Most important symptoms and effects, both acute and delayed
No information available.

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

SECTION 5: Firefighting measures

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

Unsuitable extinguishing media
Full water jet

5.2 Special hazards arising from the substance or mixture
Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters
Special protective equipment for firefighters
In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information
Use water spray jet to protect personnel and to cool endangered containers. Under extreme heating in closed containers polymerisation, decomposition Pressure formation and bursting of containers possible. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of fire residues and contaminated fire fighting water in line with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions
Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not discharge into the sewage system/surface water/ground water/subsoil as well as the soil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4 Reference to other sections
Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage
7.1 Precautions for safe handling
Normal precautions taken when handling chemicals should be observed. Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

Protective measures
It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists Avoid contact with skin and eyes. Wear personal protection equipment (refer to section 8). If handled uncovered, arrangements with local exhaust ventilation should be used if possible. Comply with the health and safety at work laws.

Measures to prevent fire
The product is not: Flammable Usual measures for fire prevention. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.

Measures to prevent aerosol and dust generation
Vapours/aerosols should be exhausted directly at the point of origin.

Environmental precautions
Shafts and sewers must be protected from entry of the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product. Provide for retaining containers, eg. floor pan without outflow. Keep/Store only in original container.

Hints on joint storage
Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Keep away from food, drink and animal feeding stuffs.

Storage class: 10
Storage class (TRGS 510): 10

Further information on storage conditions
Keep container tightly closed and in a well-ventilated place. Do not store outside.
Recommended storage temperature: 5°C - 30°C

7.3 Specific end use(s)
None
**DIN EN 166**

**Skin protection**

**Hand protection**
- Oil resistant, tested, protective gloves, e.g. nitrile rubber EN 374-2 must be worn.

**Body protection**
- In case of splattering, wear oil-resistant protective clothing.

**Respiratory protection**
- If workplace limits are exceeded, a gas mask approved (according to EN 149 FFP2/3 SL) for this purpose must be worn.

**General health and safety measures**
- When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

- **Appearance:** liquid  
- **Colour:** light yellow  
- **Odour:** characteristic  

**Safety relevant basis data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
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<tr>
<td>Pourpoint</td>
<td>&gt; -54 °C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
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</tr>
<tr>
<td>Initial boiling point and boiling range (1013 hPa)</td>
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</tr>
<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Flash point</td>
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<td>Vapour pressure</td>
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<td>Density</td>
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<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Viscosity</td>
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</tr>
</tbody>
</table>

**9.2 Other information**

None

### SECTION 10: Stability and reactivity

**10.1 Reactivity**

None, if handled according to order.

**10.2 Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3 Possibility of hazardous reactions**

Reactions with strong oxidizing agents possible.

**10.4 Conditions to avoid**

Stable under recommended storage and handling conditions (see section 7).

**10.5 Incompatible materials**

Reactions with strong acids or alkalines possible. Reactions with strong oxidizing agents 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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects
Non-toxic. This information is based on data from the components of the preparation, or similar materials.

Irritant and corrosive effects
Primary irritation to the skin
Not an irritant. This information is based on data from the components of the preparation, or similar materials.

Irritation to eyes
Not an irritant. This information is based on data from the components of the preparation, or similar materials.

Sensitisation
No sensitizing effects known. This information is based on data from the components of the preparation, or similar materials.

In case of inhalation

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
The product is not classified. The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.5 Additional information
This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

SECTION 12: Ecological information

12.1 Toxicity
The product is not classified according to the calculation method of the General Classification guideline for preparations of the EU in the latest version. This information is based on data from the components of the preparation, or similar materials.

12.2 Persistence and degradability
Readily biodegradable (according to OECD criteria). This information is based on data from the components of the preparation, or similar materials.

Abiotic degradation
Mechanical separation in a suitable sewage plant is possible.

12.3 Bioaccumulative potential
No indication of bioaccumulation potential. This information is based on data from the components of the preparation, or similar materials.

12.4 Mobility in soil
Floats on the water surface. In the soil low mobility.

12.5 Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects
No information available.

12.7 Additional ecotoxicological information
Do not empty the product into drains, do not store on public depositories disposal: in accordance with local official regulations.

Page : 5 / 7
SECTION 13: Disposal considerations

13.1 Waste treatment methods
Content and contaminated packaging should be treated as hazardous waste. Delivery to an approved waste disposal company.

Product/Packaging disposal
Disposal, in accordance with local official regulation.

Waste codes/waste designations according to EWC/AVV

- Waste code product
  Waste code (91/689/EEC) : 13 01 12* readily biodegradable hydraulic oils

- Waste treatment options
  Empty containers should be scrapped or reconditioned. Containers, which have not been emptied properly must be treated as special waste.

SECTION 14: Transport information

14.1 UN number
No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name
No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)
No dangerous goods in sense of this transport regulation.

14.4 Packing group
No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards
No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user
None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
- Water hazard class (WGK)
  Class : 1 (Slightly hazardous to water) Classification according to VvVwS

Other regulations, restrictions and prohibition regulations
- Betriebssicherheitsverordnung (BetrSichV)
  No flammable liquid according to BetrSichV.

15.2 Chemical Safety Assessment
No information available.

SECTION 16: Other information

16.1 Indication of changes
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.